

Heavy Duty Diesel Rating Workshop

Rater/Parts Crosstab

	Total parts rated	calibration_piston	A1_two-piece	A2_two-piece	A3_keystone	A4_keystone	A5_square	A6_square	B1_two-piece	B2_two-piece	B3_keystone	B4_keystone	B5_square	B6_square	C1_two-piece	C2_two-piece	C3_keystone	C4_keystone	C5_square	C6_square	D1_two-piece	D2_two-piece	D3_keystone	D4_keystone	D5_square	D6_square	Cx_square	6v92	M11_sludge	
AHLWARDT	10	•			•	•	•	•												•										
AVIS	15	•			•	•			•	•	•	•	•	•	•	•	•				•								•	
BARRERA	11	•								•	•	•	•	•					•	•							•	•	•	
BROWN	9	•							•	•		•	•	•	•	•														
CAMPBELL	10	•										•			•		•	•			•				•	•		•		
CAPRONI	9	•											•		•			•	•	•	•	•				•	•			
CASSIDY	10	•	•	•	•	•	•	•							•	•				•										
CASTILLO	15	•	•	•	•	•	•	•					•	•							•	•	•	•	•	•	•			
CLAPPERTY	12	•									•		•		•	•	•	•	•	•		•					•		•	
DAVEY	12	•	•					•	•				•	•		•	•	•	•	•			•				•		•	
FOECKING	13	•		•	•		•	•	•	•	•	•	•	•				•	•	•	•						•		•	
GARCIA, P	20	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•
GARRETT	14	•	•	•	•	•	•	•													•	•	•	•	•	•	•		•	
GREENLAND	18	•	•	•	•	•	•	•				•	•	•	•		•	•	•	•	•				•	•	•			
HILL	3	•	•	•																										
HILLS	12	•					•	•	•	•	•	•	•	•	•	•							•		•				•	
HOLLAND	27	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
HURTADO	6	•							•	•	•	•	•	•															•	
KOBRINETZ	27	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
LOPEZ	12	•	•	•	•	•	•	•					•	•											•	•			•	
LOVE	14	•	•	•	•	•	•	•							•	•	•	•	•	•							•			
MACH	13	•	•	•	•	•	•	•													•	•	•	•	•	•	•			
MAY	14	•	•	•	•	•	•	•	•	•	•	•	•	•								•		•	•	•			•	
PLAIZIER	14	•	•	•	•	•	•	•									•		•			•	•	•	•	•				
POZZI	9	•							•	•	•	•	•	•																
RANSFORD	9	•							•	•	•	•	•	•	•	•	•	•	•	•										
RODRIGUEZ	18	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•	•									•	
SANCHEZ	8	•																				•	•	•	•	•			•	
SMITH	16	•	•	•	•	•	•	•	•	•	•	•	•	•			•		•		•									
SOZZI	7	•	•	•	•	•	•	•																						
TSCHIRHART	13	•											•	•	•	•	•	•	•	•					•	•	•		•	
VIERA	19	•				•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
WALKER	7	•					•	•					•	•						•	•									
WRENCH	7	•													•	•	•	•	•	•										
YANCHAR	12	•		•	•	•				•				•		•				•			•	•	•				•	
Total Ratings	445	35	16	17	18	18	17	20	14	14	16	15	21	20	16	15	17	15	18	18	14	10	12	10	16	15	11	3	14	

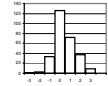
MIN RATINGS/RATER 3
 MAX RATINGS/RATER 27
 MIN RATINGS/PART 3
 MAX RATINGS/PART 21

Heavy Duty Diesel Rating Workshop

PART ID = calibration - composite

RATED VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4		TGF			UWPD	WPD
AHLWARDT	38.00	29.32	0.00	0.02	40.38	1.50	1.30		25.00			110.52	110.52
AVIS	37.80	35.00	0.13	0.06	33.90	1.58	1.16		33.50			109.63	109.63
BARRERA	37.50	32.61	0.16	0.04	31.26	1.58	0.78		31.00			103.93	103.93
BROWN	50.75	34.25	0.03	0.02	39.66	2.05	1.04		40.00			127.80	127.80
CAMPBELL	43.50	35.57	0.29	0.09	29.11	1.59	1.75		35.00			111.90	111.90
CAPRONI	40.75	25.55	0.10	0.10	45.35	1.94	1.70		30.00			115.49	115.49
CASSIDY	39.75	29.47	0.18	0.18	33.15	1.38	1.48		35.00			105.58	105.58
CASTILLO	43.75	28.90	0.00	0.12	31.82	2.33	2.20		38.00			109.12	109.12
CLAPPERTY	41.00	30.77	0.26	0.15	27.78	1.27	1.33		42.00			102.56	102.56
DAVEY	44.75	33.68	0.80	0.25	40.54	2.13	1.92		32.00			124.07	124.07
FOECKING	40.30	25.73	0.15	0.10	38.00	1.58	1.65		41.00			107.50	107.50
GARCIA_P	34.50	35.07	0.12	0.15	27.45	1.40	2.00		34.00			100.69	100.69
GARRETT	40.75	34.51	0.20	0.30	35.95	1.42	1.17		32.00			114.30	114.30
GREENLAND	37.50	29.90	0.20	0.20	30.93	1.75	1.38		38.00			101.86	101.86
HILL	40.25	32.30	0.56	0.04	24.75	1.15	0.93		37.00			99.96	99.96
HILLS	37.50	29.40	0.20	0.20	30.55	1.33	1.15		30.00			100.33	100.33
HOLLAND	32.75	35.30	0.02	0.00	28.10	2.00	2.02		28.00			100.19	100.19
HURTADO	47.50	29.00	0.34	0.00	30.00	2.00	2.00		28.00			110.84	110.84
KOBRINETZ	37.75	27.58	0.28	0.13	31.27	1.49	1.47		33.00			99.97	99.97
LOPEZ	36.00	35.05	0.78	0.38	30.61	2.05	2.13		30.00			106.98	106.98
LOVE	45.25	37.95	0.20	0.20	31.50	1.50	1.65		40.00			118.25	118.25
MACH	49.50	23.48	0.35	0.16	35.87	2.02	2.17		24.00			113.55	113.55
MAY	39.50	30.94	0.36	0.31	30.94	1.36	1.51		34.00			104.92	104.92
PLAIZIER	44.25	34.57	0.00	0.00	43.52	1.70	1.41		46.00			125.45	125.45
POZZI	43.00	26.70	0.05	0.03	32.36	1.58	1.80		37.00			105.51	105.51
RANSFORD	48.13	32.08	0.04	0.02	38.28	2.03	1.34		42.50			121.92	121.92
RODRIGUEZ	34.75	35.20	0.30	0.12	30.45	1.68	1.73		36.00			104.23	104.23
SANCHEZ	47.75	32.55	0.50	0.10	46.54	1.25	0.63		42.00			129.32	129.32
SMITH	38.25	40.03	0.05	0.00	29.59	0.20	1.20		26.00			109.32	109.32
SOZZI	47.25	27.12	0.07	0.00	43.42	1.40	1.34		32.00			120.59	120.59
TSCHIRHART	35.00	22.35	0.10	0.10	36.60	1.57	1.90		31.00			97.62	97.62
VIERA	43.75	31.86	0.14	0.11	29.11	1.12	1.47		35.00			107.56	107.56
WALKER	37.80	30.80	0.20	0.30	29.00	2.00	1.82		33.00			101.92	101.92
WRENCH	44.80	35.60	0.50	0.20	35.60	2.20	2.60		34.00			121.50	121.50
YANCHAR	39.80	35.40	0.11	0.07	30.10	1.45	1.22		25.00			108.15	108.15
MAXIMUM	50.75	40.03	0.80	0.38	46.54	2.33	2.60		46.00			129.32	129.32
MINIMUM	32.75	22.35	0.00	0.00	24.75	0.20	0.63		24.00			97.62	97.62
MEAN	41.18	31.59	0.22	0.12	33.81	1.62	1.55		34.00			110.09	110.09
STD	4.63	4.08	0.20	0.10	5.53	0.40	0.43		5.42			8.79	8.79
STD/MEAN, %	11.24%	12.93%	91.54%	83.70%	16.36%	24.99%	27.99%		15.95%			7.98%	7.98%



yi within 1 70.7%
 yi within 2 95.7%
 yi within 3 99.6%
 yi >3 0.4%

PART ID = calibration - composite

YI VALUES

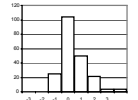
	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4		TGF			UWPD	WPD	MEAN	STD
AHLWARDT	-0.69	-0.56	-1.09	-1.00	1.19	-0.29	-0.58		-1.66			0.05	0.05	-0.46	0.78
AVIS	-0.73	0.84	-0.45	-0.60	0.02	-0.09	-0.90		-0.09			-0.05	-0.05	-0.21	0.49
BARRERA	-0.79	0.25	-0.30	-0.80	-0.46	-0.09	-1.78		-0.55			-0.70	-0.70	-0.59	0.54
BROWN	2.07	0.65	-0.94	-1.00	1.06	1.08	-1.18		1.11			2.02	2.02	0.69	1.29
CAMPBELL	0.50	0.97	0.34	-0.31	-0.85	-0.06	0.45		0.18			0.21	0.21	0.16	0.49
CAPRONI	-0.09	-1.48	-0.60	-0.21	2.09	0.80	0.34		-0.74			0.61	0.61	0.13	0.99
CASSIDY	-0.31	-0.52	-0.23	0.53	-0.12	-0.58	-0.17		0.18			-0.51	-0.51	-0.22	0.36
CASTILLO	0.56	-0.66	-1.09	-0.01	-0.36	1.77	1.49		0.74			-0.11	-0.11	0.22	0.91
CLAPPERTY	-0.04	-0.20	0.19	0.29	-1.09	-0.86	-0.51		-1.47			-0.86	-0.86	-0.25	0.77
DAVEY	0.77	0.51	2.86	1.28	1.22	1.27	0.85		-0.37			1.59	1.59	1.16	0.84
FOECKING	-0.19	-1.43	-0.38	-0.21	0.76	-0.10	0.21		1.29			-0.29	-0.29	-0.06	0.72
GARCIA_P	-1.44	0.85	-0.50	0.29	-1.15	-0.53	1.03		0.00			-1.07	-1.07	-0.36	0.87
GARRETT	-0.09	0.72	-0.11	1.77	0.39	-0.49	-0.88		-0.37			0.48	0.48	0.19	0.75
GREENLAND	-0.79	-0.41	-0.11	0.78	-0.52	0.33	-0.40		0.74			-0.94	-0.94	-0.23	0.65
HILL	-0.20	0.17	1.65	-0.84	-1.64	-1.17	-1.44		0.55			-1.15	-1.15	-0.52	1.05
HILLS	-0.79	-0.54	-0.11	0.78	-0.59	-0.72	-0.93		-0.74			-1.11	-1.11	-0.58	0.56
HOLLAND	-1.82	0.91	-0.99	-1.19	-1.03	0.95	1.08		-1.11			-1.13	-1.13	-0.55	1.08
HURTADO	1.37	-0.63	0.59	-1.19	-0.69	0.95	1.03		-1.11			0.09	0.09	0.05	0.92
KOBRINETZ	-0.74	-0.98	0.29	0.09	-0.46	-0.31	-0.19		-0.18			-1.15	-1.15	-0.48	0.51
LOPEZ	-1.12	0.85	2.73	2.51	-0.58	1.06	1.32		-0.74			-0.35	-0.35	0.53	1.37
LOVE	0.88	1.56	-0.11	0.78	-0.42	-0.29	0.22		1.11			0.93	0.93	0.56	0.66
MACH	1.80	-1.99	0.64	0.39	0.37	1.00	1.42		-1.84			0.39	0.39	0.26	1.24
MAY	-0.36	-0.16	0.68	1.87	-0.52	-0.63	-0.10		0.00			-0.59	-0.59	-0.04	0.78
PLAIZIER	0.66	0.73	-1.09	-1.19	1.75	0.21	-0.33		2.21			1.75	1.75	0.65	1.23
POZZI	0.39	-1.20	-0.85	-0.95	-0.26	-0.10	0.57		0.55			-0.52	-0.52	-0.29	0.63
RANSFORD	1.50	0.12	-0.89	-1.00	0.81	1.03	-0.49		1.57			1.35	1.35	0.53	1.01
RODRIGUEZ	-1.39	0.88	0.39	-0.01	-0.61	0.16	0.41		0.37			-0.67	-0.67	-0.11	0.69
SANCHEZ	1.42	0.24	1.38	-0.21	2.30	-0.91	-2.12		1.47			2.19	2.19	0.79	1.49
SMITH	-0.63	2.07	-0.85	-1.19	-0.76	-3.51	-0.81		-1.47			-0.09	-0.09	0.73	1.38
SOZZI	1.31	-1.09	-0.77	-1.19	1.74	-0.53	-0.49		-0.37			1.20	1.20	0.10	1.12
TSCHIRHART	-1.33	-2.26	-0.60	-0.21	0.50	-0.11	0.80		-0.55			-1.42	-1.42	-0.66	0.95
VIERA	0.56	0.07	-0.40	-0.11	-0.85	-1.23	-0.19		0.18			-0.29	-0.29	-0.25	0.51
WALKER	-0.73	-0.19	-0.11	1.77	-0.87	0.95	0.62		-0.18			-0.93	-0.93	-0.06	0.91
WRENCH	0.78	0.98	1.38	0.78	0.32	1.45	2.41		0.00			1.30	1.30	1.07	0.67
YANCHAR	-0.30	0.93	-0.55	-0.50	-0.67	-0.41	-0.76		-1.66			-0.22	-0.22	-0.44	0.64
Yi MAXIMUM	2.07	-2.26	2.86	2.51	2.30	-3.51	2.41		2.21			2.19	2.19	1.16	1.49
Yi MINIMUM	-0.04	0.07	-0.11	-0.01	0.02	-0.06	-0.10		0.00			0.05	0.05	-0.04	0.36
Yi MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00		
Yi STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	1.00		
Ratings MEAN	41.18	31.59	0.22	0.12	33.81	1.62	1.55		34.00			110.09	110.09		
Ratings STD	4.63	4.08	0.20	0.10	5.53	0.40	0.43		5.42			8.79	8.79		

Heavy Duty Diesel Rating Workshop

PART ID = A1 two-piece

RATED VALUES

	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD
SMITH	29.25	6.05	2.95		14.12	4.80	2.92	0.00	6.30	5.70	9.00	1.00	0.00	0.00	72.09	231.72
RODRIGUEZ	25.75	9.69	1.24		14.76	4.77	1.80	0.45	4.80	5.40	10.00	1.00	0.00	0.00	68.66	204.94
KOBRINETZ	30.00	8.58	1.47		14.12	4.90	2.44	1.28	5.70	3.33	20.00	1.00	0.00	0.00	71.82	276.93
GARRETT	29.75	8.08	1.45		15.93	6.13	1.92	0.82	3.89	4.04	20.00	1.00	0.00	0.00	72.01	240.57
MAY	27.25	9.99	1.55		13.48	8.54	1.93	0.84	2.70	6.45	11.00	3.00	0.00	0.00	72.73	249.50
LOPEZ	25.25	8.43	1.96		18.44	4.13	2.24	1.73	3.30	4.50	10.00	1.00	0.00	0.00	69.97	299.49
PLAIZIER	27.25	4.62	2.15		15.72	4.38	1.88	0.50	7.50	4.80	26.00	0.00	0.00	0.00	68.80	217.72
CASSIDY	28.27	8.32	2.04		12.80	4.83	2.25	0.35	6.30	4.80	15.00	3.00	0.00	0.00	69.96	224.29
HOLLAND	26.00	7.70	3.52		15.48	3.95	2.10	0.81	4.50	4.20	22.00	1.00	0.00	2.00	68.25	269.62
CASTILLO	33.25	5.70	2.79		17.60	5.08	2.90	2.01	5.25	3.90	22.00	1.00	0.00	0.00	78.48	358.04
LOVE	32.75	8.75	1.70		16.20	3.75	1.78	0.95	6.30	3.75	25.00	5.00	0.00	0.00	75.93	253.98
SOZZI	28.00	5.63	2.19		13.08	5.08	2.15	0.52	7.50	6.45	23.00	0.00	0.00	0.00	70.59	229.52
MACH	41.25	3.97	2.10		14.55	3.94	1.90	1.42	3.45	2.70	17.00	0.00	0.25	0.00	75.28	290.78
GREENLAND	26.50	6.31	1.98		17.80	4.58	2.16	0.78	3.90	3.76	14.00	2.00	0.00	0.00	67.77	238.85
DAVEY	28.56	7.34	1.97		13.98	4.47	2.04	0.39	2.70	3.60	20.00	1.50	0.00	0.00	65.05	214.63
HILL	31.00	4.60	0.95		15.07	6.05	3.22	0.21	1.95	2.70	22.00	2.00	0.00	0.00	65.75	208.32
MAXIMUM	41.25	9.99	3.52		18.44	8.54	3.22	2.01	7.50	6.45	26.00	5.00	0.25	2.00	78.48	358.04
MINIMUM	25.25	3.97	0.95		12.80	3.75	1.78	0.00	1.95	2.70	9.00	0.00	0.00	0.00	65.05	204.94
MEAN	29.38	7.11	2.00		15.20	4.96	2.23	0.82	4.75	4.38	17.88	1.47	0.02	0.13	70.82	250.56
STD	3.94	1.87	0.66		1.68	1.17	0.43	0.55	1.73	1.16	5.67	1.31	0.06	0.50	3.63	40.49
STD/MEAN, %	13.42%	26.35%	32.82%		11.09%	23.51%	19.48%	67.98%	36.47%	26.52%	31.70%	89.18%	400.00%	400.00%	5.12%	16.16%



yi within 1 74.0%
 yi within 2 96.2%
 yi within 3 98.1%
 yi >3 1.9%

PART ID = A1 two-piece

Yi VALUES

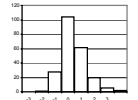
	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
SMITH	-0.03	-0.57	1.45		-0.64	-0.14	1.60	-1.47	0.89	1.14	-1.57	-0.36	-0.25	-0.25	0.35	-0.47	-0.02	0.95
RODRIGUEZ	-0.92	1.38	-1.16		-0.26	-0.16	-0.98	-0.66	0.03	0.88	-1.39	-0.36	-0.25	-0.25	-0.60	-1.13	-0.39	0.75
KOBRINETZ	0.16	0.78	-0.81		-0.64	-0.05	0.49	0.84	0.55	-0.90	0.37	-0.36	-0.25	-0.25	0.28	0.65	0.06	0.57
GARRETT	0.09	0.52	-0.84		0.44	1.00	-0.71	0.01	-0.50	-0.29	0.37	-0.36	-0.25	-0.25	0.33	-0.25	-0.05	0.50
MAY	-0.54	1.54	-0.69		-1.02	3.07	-0.68	0.04	-1.18	1.78	-1.21	1.17	-0.25	-0.25	0.53	-0.03	0.15	1.24
LOPEZ	-1.05	0.70	-0.07		1.93	-0.71	0.02	1.64	-0.84	0.10	-1.39	-0.36	-0.25	-0.25	-0.24	1.21	0.03	0.96
PLAIZIER	-0.54	-1.33	0.23		0.31	-0.50	-0.80	-0.57	1.59	0.36	1.43	-1.12	-0.25	-0.25	-0.56	-0.81	-0.19	0.84
CASSIDY	-0.28	0.65	0.06		-1.42	-0.11	0.06	-0.84	0.89	0.36	-0.51	1.17	-0.25	-0.25	-0.24	-0.65	-0.09	0.67
HOLLAND	-0.86	0.31	2.31		0.17	-0.86	-0.30	-0.02	-0.15	-0.15	0.73	-0.36	-0.25	3.75	-0.71	0.47	0.27	1.24
CASTILLO	0.98	-0.75	1.20		1.43	0.10	1.55	2.16	0.29	-0.41	0.73	-0.36	-0.25	-0.25	2.11	2.65	0.75	1.08
LOVE	0.85	0.88	-0.46		0.60	-1.04	-1.03	0.24	0.89	-0.54	1.26	2.70	-0.25	-0.25	1.41	0.08	0.36	1.01
SOZZI	-0.35	-0.79	0.29		-1.26	0.10	-0.19	-0.54	1.59	1.78	0.90	-1.12	-0.25	-0.25	-0.06	-0.52	-0.04	0.88
MACH	3.01	-1.68	0.15		-0.38	-0.88	-0.75	1.09	-0.75	-1.45	-0.15	-1.12	3.75	-0.25	1.23	0.99	0.19	1.57
GREENLAND	-0.73	-0.43	-0.03		1.55	-0.33	-0.15	-0.06	-0.49	-0.53	-0.68	0.41	-0.25	-0.25	-0.84	-0.29	-0.21	0.58
DAVEY	-0.21	0.12	-0.05		-0.72	-0.42	-0.43	-0.77	-1.18	-0.67	0.37	0.02	-0.25	-0.25	-1.59	-0.89	-0.46	0.52
HILL	0.41	-1.34	-1.60		-0.07	0.93	2.29	-1.09	-1.62	-1.45	0.73	0.41	-0.25	-0.25	-1.40	-1.04	-0.36	1.15
Yi MAXIMUM	3.01	-1.68	2.31		1.93	3.07	2.29	2.16	-1.62	1.78	-1.57	2.70	3.75	3.75	2.11	2.65	0.75	1.57
Yi MINIMUM	-0.03	0.12	-0.03		-0.07	-0.05	0.02	0.01	0.03	0.10	-0.15	0.02	-0.25	-0.25	-0.06	-0.03	-0.02	0.50
Yi MEAN	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Yi STD	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Ratings MEAN	29.38	7.11	2.00		15.20	4.96	2.23	0.82	4.75	4.38	17.88	1.47	0.02	0.13	70.82	250.56		
Ratings STD	3.94	1.87	0.66		1.68	1.17	0.43	0.55	1.73	1.16	5.67	1.31	0.06	0.50	3.63	40.49		

Heavy Duty Diesel Rating Workshop

PART ID = A2 two-piece

RATED VALUES

	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD
RODRIGUEZ	30.75	12.30	2.65		8.90	9.44	3.01	1.03	5.61	5.70	8.00	3.00	0.00	0.00	79.39	319.08
MAY	26.50	11.16	2.88		12.70	10.43	2.38	1.02	2.70	6.90	10.00	4.00	0.00	0.00	76.67	303.02
KOBRINETZ	28.00	10.51	2.65		11.80	7.65	2.73	1.48	4.95	5.40	16.00	4.00	0.00	0.00	75.17	326.33
GARRETT	28.50	10.49	2.65		13.99	9.86	2.40	0.92	3.00	4.80	16.00	4.00	0.00	0.00	76.61	293.64
LOPEZ	25.25	12.02	2.23		17.00	9.59	2.26	1.35	4.88	5.03	9.00	2.00	0.00	0.00	79.59	310.44
SMITH	27.50	11.24	3.35		10.21	8.61	3.10	1.18	6.76	6.46	8.00	6.00	0.00	0.00	78.41	334.55
PLAIZIER	29.25	10.80	2.53		13.12	13.45	2.40	0.75	6.00	4.96	16.00	4.00	0.00	0.00	83.26	296.45
CASTILLO	30.00	11.07	2.72		12.95	7.98	3.04	1.16	5.70	4.80	20.00	4.00	0.00	0.00	79.42	323.00
CASSIDY	27.00	9.36	1.71		8.06	7.39	4.43	1.35	5.40	4.95	7.00	2.00	0.00	0.00	69.65	323.99
HOLLAND	26.00	9.65	2.66		10.63	8.78	2.23	1.20	4.50	4.80	10.00	4.00	0.00	0.00	70.45	294.67
LOVE	30.00	11.20	2.12		16.90	9.35	1.88	1.00	4.80	5.25	22.00	8.00	0.00	0.00	82.50	285.98
FOECKING	27.00	12.11	2.57		15.06	9.52	2.80	0.95	5.10	4.50	7.00	3.00	0.00	0.00	79.60	305.38
GREENLAND	26.50	9.09	2.53		22.53	6.70	2.65	0.93	4.50	5.25	11.00	5.00	0.00	0.00	80.68	289.43
MACH	45.75	6.40	2.00		12.16	6.10	2.00	1.35	5.08	5.02	13.00	2.00	0.00	0.25	85.86	309.75
SOZZI	27.34	10.89	3.20		8.31	6.44	3.20	0.69	6.60	5.85	16.00	1.00	0.00	0.00	72.51	293.69
YANCHAR	28.50	12.06	1.87		13.40	10.25	2.90	0.79	5.40	4.65	12.00	7.00	0.00	0.00	79.82	287.86
HILL	27.00	9.80	1.82		11.85	7.15	2.42	0.58	3.00	5.40	23.00	6.00	0.00	2.00	69.02	242.00
MAXIMUM	45.75	12.30	3.35		22.53	13.45	4.43	1.48	6.76	6.90	23.00	8.00	0.00	2.00	85.86	334.55
MINIMUM	25.25	6.40	1.71		8.06	6.10	1.88	0.58	2.70	4.50	7.00	1.00	0.00	0.00	69.02	242.00
MEAN	28.87	10.60	2.48		12.92	8.75	2.70	1.04	4.94	5.28	13.18	4.06	0.00	0.13	77.57	302.31
STD	4.61	1.45	0.46		3.60	1.83	0.59	0.26	1.16	0.64	5.16	1.89	0.00	0.49	4.84	21.58
STD/MEAN, %	15.95%	13.70%	18.71%		27.88%	20.87%	21.95%	24.68%	23.54%	12.16%	39.18%	46.48%	∞	366.50%	6.24%	7.14%



yi within 1 74.7%
 yi within 2 96.4%
 yi within 3 99.1%
 yi >3 0.9%

PART ID = A2 two-piece

Yi VALUES

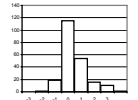
	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
RODRIGUEZ	0.41	1.17	0.37		-1.12	0.38	0.53	-0.05	0.58	0.66	-1.00	-0.56	0.00	-0.27	0.38	0.78	0.15	0.65
MAY	-0.52	0.39	0.87		-0.06	0.92	-0.53	-0.09	-1.93	2.53	-0.62	-0.03	0.00	-0.27	-0.18	0.03	0.03	0.96
KOBRINETZ	-0.19	-0.06	0.37		-0.31	-0.60	0.06	1.70	0.01	0.19	0.55	-0.03	0.00	-0.27	-0.49	1.11	0.14	0.61
GARRETT	-0.08	-0.07	0.37		0.30	0.61	-0.50	-0.48	-1.67	-0.74	0.55	-0.03	0.00	-0.27	-0.20	-0.40	-0.17	0.57
LOPEZ	-0.79	0.98	-0.53		1.13	0.46	-0.74	1.19	-0.06	-0.39	-0.81	-1.09	0.00	-0.27	0.42	0.38	-0.01	0.74
SMITH	-0.30	0.44	1.88		-0.75	-0.07	0.68	0.53	1.57	1.84	-1.00	1.03	0.00	-0.27	0.17	1.49	0.48	0.92
PLAIZIER	0.08	0.14	0.11		0.06	2.58	-0.50	-1.14	0.91	-0.49	0.55	-0.03	0.00	-0.27	1.18	-0.27	0.19	0.87
CASTILLO	0.24	0.33	0.52		0.01	-0.42	0.58	0.46	0.65	-0.74	1.32	-0.03	0.00	-0.27	0.38	0.96	0.27	0.53
CASSIDY	-0.41	-0.85	-1.66		-1.35	-0.74	2.93	1.19	0.40	-0.51	-1.20	-1.09	0.00	-0.27	-1.63	1.00	-0.28	1.24
HOLLAND	-0.62	-0.65	0.39		-0.63	0.02	-0.78	0.61	-0.38	-0.74	-0.62	-0.03	0.00	-0.27	-1.47	-0.35	-0.37	0.52
LOVE	0.24	0.42	-0.77		1.11	0.33	-1.38	-0.17	-0.12	-0.04	1.71	2.09	0.00	-0.27	1.02	-0.76	0.23	0.94
FOECKING	-0.41	1.04	0.20		0.60	0.42	0.18	-0.38	0.14	-1.21	-1.20	-0.56	0.00	-0.27	0.42	0.14	-0.06	0.62
GREENLAND	-0.52	-1.04	0.11		2.67	-1.12	-0.08	-0.44	-0.38	-0.04	-0.42	0.50	0.00	-0.27	0.64	-0.60	-0.07	0.90
MACH	3.66	-2.89	-1.03		-0.21	-1.45	-1.18	1.19	0.12	-0.40	-0.03	-1.09	0.00	0.24	1.71	0.34	-0.07	1.52
SOZZI	-0.33	0.20	1.54		-1.28	-1.26	0.84	-1.37	1.43	0.89	0.55	-1.62	0.00	-0.27	-1.04	-0.40	-0.14	1.04
YANCHAR	-0.08	1.01	-1.31		0.13	0.82	0.35	-0.98	0.40	-0.98	-0.23	1.56	0.00	-0.27	0.47	-0.67	0.01	0.80
HILL	-0.41	-0.55	-1.42		-0.30	-0.87	-0.47	-1.80	-1.67	0.19	1.90	1.03	0.00	3.85	-1.76	-2.80	-0.34	1.65
Yi MAXIMUM	3.66	-2.89	1.88		2.67	2.58	2.93	-1.80	-1.93	2.53	1.90	2.09	0.00	3.85	-1.76	-2.80	0.48	1.65
Yi MINIMUM	-0.08	-0.06	0.11		0.01	0.02	0.06	-0.05	0.01	-0.04	-0.03	-0.03	0.00	0.24	0.17	0.03	-0.01	0.52
Yi MEAN	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Yi STD	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00		
Ratings MEAN	28.87	10.60	2.48		12.92	8.75	2.70	1.04	4.94	5.28	13.18	4.06	0.00	0.13	77.57	302.31		
Ratings STD	4.61	1.45	0.46		3.60	1.83	0.59	0.26	1.16	0.64	5.16	1.89	0.00	0.49	4.84	21.58		

Heavy Duty Diesel Rating Workshop

PART ID = A3 keystone

RATED VALUES

	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3		Upper Skirt	Under-crown	TGF	2GF	TLHC	TLFC	UWPD	WPD
SMITH	32.00	25.00	0.60		6.20	26.06	1.55		1.00	1.45	17.00	12.00	0.00	0.00	93.86	250.51
MAY	28.00	24.62	0.48		6.16	21.69	0.74		0.16	1.05	13.00	10.00	0.00	0.00	82.90	166.28
KOBRINETZ	27.75	25.39	0.86		8.94	20.65	0.74		0.21	1.50	15.00	10.00	0.00	0.00	86.04	189.80
GARRETT	28.58	24.47	0.89		5.98	21.79	0.86		0.41	1.66	11.00	14.00	0.00	1.00	84.64	204.80
LOPEZ	27.75	24.66	1.33		14.34	22.76	1.65		0.95	1.88	12.00	9.00	0.00	0.00	95.31	275.06
RODRIGUEZ	26.00	25.00	1.22		5.28	23.04	0.91		0.22	0.91	7.00	3.00	0.00	0.00	82.58	187.27
AVIS	28.25	24.64	0.56		6.05	21.90	0.71		0.10	0.88	13.50	9.10	0.00	0.00	83.09	161.64
AHLWARDT	29.75	22.02	0.59		4.42	19.41	0.92		0.03	1.03	20.00	15.00	0.00	0.00	78.17	161.34
PLAIZIER	26.75	24.49	1.10		4.09	25.04	0.30		0.17	1.10	12.00	10.00	0.00	0.00	83.04	171.49
CASTILLO	30.00	24.28	1.15		15.50	23.11	1.40		0.50	1.28	16.00	9.00	0.00	0.00	97.22	234.38
CASSIDY	27.82	20.68	0.95		4.74	32.95	1.19		0.28	2.38	15.00	7.00	0.00	0.00	90.99	225.54
GREENLAND	26.50	24.64	0.93		5.45	25.00	0.80		0.35	1.03	15.00	9.00	0.00	0.00	84.70	188.51
FOECKING	28.50	24.31	0.71		7.64	23.00	1.10		0.27	1.38	15.00	6.00	0.00	0.00	86.90	195.63
SOZZI	30.00	24.78	0.70		4.26	25.75	0.86		0.15	2.08	17.00	8.00	0.00	0.00	88.57	200.15
LOVE	32.50	25.00	0.70		6.60	24.25	0.83		0.54	1.10	25.00	18.00	0.00	0.00	91.52	204.35
HOLLAND	26.75	27.87	0.91		7.58	20.50	1.48		0.45	0.92	15.00	8.00	0.00	0.00	86.46	210.56
MACH	36.00	25.00	0.58		4.95	26.99	0.83		0.29	1.47	10.00	6.00	0.00	0.00	96.11	202.59
YANCHAR	29.00	25.00	0.69		7.98	23.65	0.83		0.26	1.44	14.00	11.00	0.00	0.00	88.85	192.43
MAXIMUM	36.00	27.87	1.33		15.50	32.95	1.65		1.00	2.38	25.00	18.00	0.00	1.00	97.22	275.06
MINIMUM	26.00	20.68	0.48		4.09	19.41	0.30		0.03	0.88	7.00	3.00	0.00	0.00	78.17	161.34
MEAN	28.99	24.55	0.83		7.01	23.75	0.98		0.35	1.36	14.58	9.67	0.00	0.06	87.83	201.24
STD	2.48	1.42	0.25		3.18	3.08	0.35		0.26	0.42	3.92	3.51	0.00	0.24	5.37	30.24
STD/MEAN, %	8.56%	5.79%	29.90%		45.42%	12.95%	35.23%		75.12%	31.09%	26.87%	36.33%	∞	424.26%	6.12%	15.03%



yi within 1 78.2%
 yi within 2 94.4%
 yi within 3 99.5%
 yi >3 0.5%

PART ID = A3 keystone

Yi VALUES

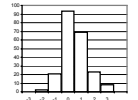
	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3		Upper Skirt	Under-crown	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD	
SMITH	1.21	0.32	-0.93		-0.25	0.75	1.64		2.45	0.21	0.62	0.66	0.00	-0.24	1.12	1.63	0.66	0.90	
MAY	-0.40	0.05	-1.41		-0.27	-0.67	-0.70		-0.73	-0.74	-0.40	0.09	0.00	-0.24	-0.92	-1.16	-0.53	0.45	
KOBRINETZ	-0.50	0.59	0.12		0.61	-1.01	-0.70		-0.54	0.32	0.11	0.09	0.00	-0.24	-0.33	-0.38	-0.13	0.48	
GARRETT	-0.17	-0.05	0.24		-0.32	-0.64	-0.35		0.22	0.70	-0.91	1.23	0.00	4.01	-0.59	0.12	0.25	1.21	
LOPEZ	-0.50	0.08	2.00		2.30	-0.32	1.91		2.26	1.22	-0.66	-0.19	0.00	-0.24	1.39	2.44	0.84	1.19	
RODRIGUEZ	-1.21	0.32	1.57		-0.54	-0.23	-0.21		-0.50	-1.07	-1.93	-1.90	0.00	-0.24	-0.98	-0.46	-0.53	0.90	
AVIS	-0.30	0.07	-1.09		-0.30	-0.60	-0.79		-0.95	-1.14	-0.28	-0.16	0.00	-0.24	-0.88	-1.31	-0.57	0.45	
AHLWARDT	0.30	-1.78	-0.97		-0.81	-1.41	-0.18		-1.22	-0.79	1.38	1.52	0.00	-0.24	-1.80	-1.32	-0.52	1.05	
PLAIZIER	-0.90	-0.04	1.09		-0.92	0.42	-1.97		-0.69	-0.62	-0.66	0.09	0.00	-0.24	-0.89	-0.98	-0.45	0.74	
CASTILLO	0.41	-0.19	1.29		2.67	-0.21	1.20		0.56	-0.20	0.36	-0.19	0.00	-0.24	1.75	1.10	0.59	0.89	
CASSIDY	-0.47	-2.72	0.48		-0.71	2.99	0.60		-0.27	2.40	0.11	-0.76	0.00	-0.24	0.59	0.80	0.20	1.38	
GREENLAND	-1.01	0.07	0.40		-0.49	0.41	-0.53		-0.01	-0.79	0.11	-0.19	0.00	-0.24	-0.58	-0.42	-0.23	0.42	
FOECKING	-0.20	-0.17	-0.50		0.20	-0.24	0.33		-0.33	0.03	0.11	-1.05	0.00	-0.24	-0.17	-0.19	-0.17	0.33	
SOZZI	0.41	0.16	-0.54		-0.86	0.65	-0.35		-0.76	1.69	0.62	-0.48	0.00	-0.24	0.14	-0.04	0.03	0.67	
LOVE	1.41	0.32	-0.52		-0.13	0.16	-0.44		0.71	-0.62	2.66	2.37	0.00	-0.24	0.69	0.10	0.46	1.03	
HOLLAND	-0.90	2.34	0.32		0.18	-1.06	1.44		0.37	-1.06	0.11	-0.48	0.00	-0.24	-0.26	0.31	0.08	0.93	
MACH	2.82	0.32	-1.01		-0.65	1.05	-0.44		-0.23	0.25	-1.17	-1.05	0.00	-0.24	1.54	0.04	0.09	1.10	
YANCHAR	0.00	0.32	-0.56		0.31	-0.03	-0.44		-0.35	0.18	-0.15	0.38	0.00	-0.24	0.19	-0.29	-0.05	0.30	
Yi MAXIMUM	2.82	-2.72	2.00		2.67	2.99	-1.97		2.45	2.40	2.66	2.37	0.00	4.01	-1.80	2.44	0.84	1.38	
Yi MINIMUM	0.00	-0.04	0.12		-0.13	-0.03	-0.18		-0.01	0.03	0.11	0.09	0.00	-0.24	0.14	-0.04	0.03	0.30	
Yi MEAN	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Yi STD	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	
Ratings MEAN	28.99	24.55	0.83		7.01	23.75	0.98		0.35	1.36	14.58	9.67	0.00	0.06	87.83	201.24			
Ratings STD	2.48	1.42	0.25		3.18	3.08	0.35		0.26	0.42	3.92	3.51	0.00	0.24	5.37	30.24			

Heavy Duty Diesel Rating Workshop

PART ID = A4 keystone

RATED VALUES

	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3		Upper Skirt	Under-crown	TGF	2GF	TLHC	TLFC	UWPD	WPD
MAY	49.75	18.40	0.82		15.68	17.44	1.29		0.20	1.17	65.00	4.00	0.00	0.00	104.75	221.50
SMITH	58.50	20.48	1.53		14.08	21.66	2.35		1.10	1.86	52.00	7.00	0.00	3.00	121.56	343.41
KOBRINETZ	34.59	17.80	1.08		17.03	17.44	0.78		0.27	1.71	61.00	8.00	0.00	0.00	90.70	207.26
GARRETT	54.00	19.40	1.05		17.51	17.98	0.98		0.32	1.84	54.00	9.00	0.00	2.00	113.08	249.14
LOPEZ	48.25	19.04	1.25		21.70	18.66	1.80		0.80	1.50	40.00	4.00	0.00	0.00	112.99	287.47
RODRIGUEZ	47.50	20.44	0.96		19.20	19.76	1.01		0.22	1.07	49.00	4.00	1.00	4.00	110.16	222.52
AVIS	43.50	19.50	0.64		17.75	17.99	0.83		0.12	0.77	53.50	3.10	0.00	0.00	101.10	188.39
AHLWARDT	60.00	12.52	1.03		13.47	20.51	0.98		0.08	1.03	55.00	15.00	0.00	1.00	109.62	217.61
MACH	55.50	16.31	1.24		10.88	17.45	1.14		0.49	1.03	44.00	4.00	0.25	2.00	104.04	240.65
PLAIZIER	46.50	16.27	1.23		13.69	23.18	1.08		0.16	1.24	40.00	6.00	0.00	0.00	103.35	221.58
CASTILLO	43.75	17.69	1.00		22.60	18.87	1.34		0.28	1.48	54.00	12.00	0.00	0.00	107.01	235.73
HOLLAND	51.75	17.07	0.83		17.50	16.31	1.64		0.45	1.91	61.00	5.00	0.00	0.00	107.46	259.25
GREENLAND	46.25	19.00	0.82		17.78	21.33	1.05		0.31	1.18	55.00	7.00	1.00	1.00	107.72	222.84
CASSIDY	55.52	14.64	0.67		9.58	19.72	0.90		0.21	1.75	49.00	9.00	0.00	0.00	102.99	219.29
SOZZI	53.00	20.65	1.42		11.71	18.48	1.29		0.78	1.80	50.00	3.00	0.00	0.00	109.12	283.04
LOVE	50.00	21.55	0.72		18.30	20.40	1.00		0.44	1.42	50.00	12.00	0.00	0.00	113.83	239.43
YANCHAR	46.50	19.73	0.80		20.16	19.28	1.16		0.33	1.54	57.00	6.00	0.00	2.00	109.50	235.09
VIERA	43.00	18.83	0.62		18.80	18.02	1.25		0.31	1.43	40.00	5.00	0.00	1.00	102.26	220.42
MAXIMUM	60.00	21.55	1.53		22.60	23.18	2.35		1.10	1.91	65.00	15.00	1.00	4.00	121.56	343.41
MINIMUM	34.59	12.52	0.62		9.58	16.31	0.78		0.08	0.77	40.00	3.00	0.00	0.00	90.70	188.39
MEAN	49.33	18.30	0.98		16.52	19.14	1.21		0.38	1.43	51.64	6.84	0.13	0.89	107.29	239.70
STD	6.27	2.28	0.27		3.64	1.77	0.39		0.27	0.34	7.29	3.43	0.32	1.23	6.53	35.67
STD/MEAN, %	12.71%	12.47%	27.32%		22.02%	9.22%	31.73%		69.76%	23.83%	14.12%	50.12%	258.96%	138.53%	6.08%	14.88%



yi within 1 75.0%
 yi within 2 95.4%
 yi within 3 100.0%
 yi >3 0.0%

PART ID = A4 keystone

Yi VALUES

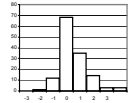
	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3		Upper Skirt	Under-crown	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD	
MAY	0.07	0.05	-0.61		-0.23	-0.96	0.20		-0.68	-0.76	1.83	-0.83	-0.39	-0.72	-0.39	-0.51	-0.28	0.70	
SMITH	1.46	0.96	2.03		-0.67	1.43	2.95		2.70	1.26	0.05	0.05	-0.39	1.71	2.19	2.91	1.33	1.20	
KOBRINETZ	-2.35	-0.22	0.36		0.14	-0.96	-1.13		-0.42	0.82	1.28	0.34	-0.39	-0.72	-2.54	-0.91	-0.48	1.08	
GARRETT	0.75	0.48	0.25		0.27	-0.66	-0.61		-0.23	1.21	0.32	0.63	-0.39	0.90	0.89	0.26	0.29	0.58	
LOPEZ	-0.17	0.33	0.99		1.42	-0.27	1.51		1.58	0.21	-1.60	-0.83	-0.39	-0.72	0.87	1.34	0.30	1.01	
RODRIGUEZ	-0.29	0.94	-0.09		0.74	0.35	-0.53		-0.61	-1.06	-0.36	-0.83	2.70	2.53	0.44	-0.48	0.25	1.16	
AVIS	-0.93	0.53	-1.28		0.34	-0.65	-1.00		-0.98	-1.94	0.26	-1.09	-0.39	-0.72	-0.95	-1.44	-0.73	0.70	
AHLWARDT	1.70	-2.53	0.17		-0.84	0.78	-0.61		-1.13	-1.17	0.46	2.38	-0.39	0.09	0.36	-0.62	-0.10	1.24	
MACH	0.98	-0.87	0.95		-1.55	-0.96	-0.19		0.41	-1.17	-1.05	-0.83	0.39	0.90	-0.50	0.03	-0.25	0.86	
PLAIZIER	-0.45	-0.89	0.92		-0.78	2.29	-0.35		-0.83	-0.56	-1.60	-0.24	-0.39	-0.72	-0.60	-0.51	-0.34	0.92	
CASTILLO	-0.89	-0.27	0.06		1.67	-0.15	0.32		-0.38	0.15	0.32	1.51	-0.39	-0.72	-0.04	-0.11	0.08	0.73	
HOLLAND	0.39	-0.54	-0.57		0.27	-1.60	1.10		0.24	1.41	1.28	-0.54	-0.39	-0.72	0.03	0.55	0.07	0.86	
GREENLAND	-0.49	0.31	-0.61		0.35	1.24	-0.43		-0.27	-0.73	0.46	0.05	2.70	0.09	0.07	-0.47	0.16	0.90	
CASSIDY	0.99	-1.60	-1.17		-1.91	0.33	-0.82		-0.64	0.94	-0.36	0.63	-0.39	-0.72	-0.66	-0.57	-0.43	0.88	
SOZZI	0.59	1.03	1.61		-1.32	-0.37	0.20		1.48	1.09	-0.22	-1.12	-0.39	-0.72	0.28	1.22	0.24	0.96	
LOVE	0.11	1.43	-0.98		0.49	0.72	-0.56		0.22	-0.03	-0.22	1.51	-0.39	-0.72	1.00	-0.01	0.18	0.77	
YANCHAR	-0.45	0.63	-0.68		1.00	0.08	-0.14		-0.19	0.32	0.74	-0.24	-0.39	0.90	0.34	-0.13	0.13	0.53	
VIERA	-1.01	0.23	-1.35		0.63	-0.63	0.09		-0.27	0.00	-1.60	-0.54	-0.39	0.09	-0.77	-0.54	-0.43	0.62	
Yi MAXIMUM	-2.35	-2.53	2.03		-1.91	2.29	2.95		2.70	-1.94	1.83	2.38	2.70	2.53	-2.54	2.91	1.33	1.24	
Yi MINIMUM	0.07	0.05	0.06		0.14	0.08	0.09		-0.19	0.00	0.05	0.05	0.39	0.09	0.03	-0.01	0.07	0.53	
Yi MEAN	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Yi STD	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Ratings MEAN	49.33	18.30	0.98		16.52	19.14	1.21		0.38	1.43	51.64	6.84	0.13	0.89	107.29	239.70			
Ratings STD	6.27	2.28	0.27		3.64	1.77	0.39		0.27	0.34	7.29	3.43	0.32	1.23	6.53	35.67			

Heavy Duty Diesel Rating Workshop

PART ID = A5 square

RATED VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4		TGF			UWPD	WPD
GARRETT	62.97	12.15	0.22	0.05	22.62	0.36	0.14		59.00			98.51	286.94
MAY	55.02	10.77	0.06	0.03	19.47	0.31	0.22		70.00			85.88	248.97
SMITH	68.25	16.34	2.00	1.00	22.45	1.20	1.10		58.00			112.34	512.73
KOBRINETZ	51.74	11.33	0.30	0.20	20.20	0.40	0.30		67.00			84.47	278.74
LOPEZ	63.00	11.89	0.15	0.05	22.13	0.19	0.15		56.00			97.56	277.22
RODRIGUEZ	53.58	14.32	0.10	0.10	18.80	0.27	0.10		63.00			87.27	281.98
AHLWARDT	69.75	12.15	0.20	0.00	19.20	0.32	0.02		65.00			101.64	272.55
MACH	71.75	12.16	0.20	0.23	16.13	1.03	0.36		60.00			101.86	306.11
WALKER	71.80	18.80	0.20	0.10	19.60	0.59	0.30		68.00			111.39	364.70
PLAIZIER	64.00	9.79	0.00	0.00	16.81	0.42	0.20		60.00			91.22	236.14
HOLLAND	67.50	10.02	0.30	0.20	19.78	0.35	0.16		65.00			98.31	273.93
CASTILLO	62.12	10.93	0.10	0.04	20.20	0.56	0.10		70.00			94.05	263.12
GREENLAND	53.91	12.06	0.30	0.30	19.93	0.51	0.30		65.00			87.30	296.40
SOZZI	61.75	12.22	0.40	0.01	19.64	1.15	0.65		60.00			95.81	312.90
LOVE	63.75	15.25	0.30	0.20	20.60	0.50	0.30		68.00			100.90	333.35
CASSIDY	64.24	11.92	0.00	0.00	18.26	0.44	0.25		59.00			95.11	264.90
VIERA	61.31	11.85	0.07	0.02	20.94	0.22	0.12		57.00			94.53	265.55
MAXIMUM	71.80	18.80	2.00	1.00	22.62	1.20	1.10		70.00			112.34	512.73
MINIMUM	51.74	9.79	0.00	0.00	16.13	0.19	0.02		56.00			84.47	236.14
MEAN	62.73	12.58	0.29	0.15	19.81	0.52	0.28		62.94			96.36	298.60
STD	6.21	2.34	0.46	0.24	1.75	0.31	0.25		4.64			8.00	63.29
STD/MEAN, %	9.89%	18.56%	158.21%	160.63%	8.83%	60.12%	90.67%		7.38%			8.30%	21.20%



yi within 1 75.7%
 yi within 2 94.9%
 yi within 3 97.8%
 yi >3 2.2%

PART ID = A5 square

Yi VALUES

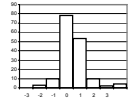
	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4		TGF			UWPD	WPD	MEAN	STD
GARRETT	0.04	-0.19	-0.15	-0.41	1.61	-0.51	-0.55		-0.85			0.27	-0.18	-0.09	0.68
MAY	-1.24	-0.78	-0.50	-0.50	-0.19	-0.67	-0.24		1.52			-1.31	-0.78	-0.47	0.79
SMITH	0.89	1.61	3.75	3.56	1.51	2.18	3.23		-1.06			2.00	3.38	2.10	1.49
KOBRINETZ	-1.77	-0.54	0.03	0.21	0.22	-0.38	0.08		0.87			-1.49	-0.31	-0.31	0.80
LOPEZ	0.04	-0.30	-0.30	-0.41	1.32	-1.04	-0.51		-1.49			0.15	-0.34	-0.29	0.74
RODRIGUEZ	-1.47	0.74	-0.41	-0.20	-0.58	-0.80	-0.71		0.01			-1.14	-0.26	-0.48	0.62
AHLWARDT	1.13	-0.19	-0.19	-0.62	-0.35	-0.64	-1.02		0.44			0.66	-0.41	-0.12	0.66
MACH	1.45	-0.18	-0.19	0.34	-2.10	1.64	0.31		-0.63			0.69	0.12	0.14	1.06
WALKER	1.46	2.66	-0.19	-0.20	-0.12	0.23	0.08		1.09			1.88	1.04	0.79	0.99
PLAIZIER	0.20	-1.20	-0.63	-0.62	-1.71	-0.32	-0.32		-0.63			-0.64	-0.99	-0.69	0.53
HOLLAND	0.77	-1.10	0.03	0.21	-0.01	-0.56	-0.47		0.44			0.24	-0.39	-0.08	0.55
CASTILLO	-0.10	-0.71	-0.41	-0.46	0.22	0.13	-0.71		1.52			-0.29	-0.56	-0.14	0.67
GREENLAND	-1.42	-0.23	0.03	0.63	0.07	-0.03	0.08		0.44			-1.13	-0.03	-0.16	0.64
SOZZI	-0.16	-0.16	0.25	-0.58	-0.10	2.02	1.44		-0.63			-0.07	0.23	0.22	0.85
LOVE	0.16	1.14	0.03	0.21	0.45	-0.06	0.08		1.09			0.57	0.55	0.42	0.42
CASSIDY	0.24	-0.28	-0.63	-0.62	-0.89	-0.25	-0.12		-0.85			-0.16	-0.53	-0.41	0.36
VIERA	-0.23	-0.31	-0.48	-0.54	0.65	-0.96	-0.63		-1.28			-0.23	-0.52	-0.45	0.51
Yi MAXIMUM	-1.77	2.66	3.75	3.56	-2.10	2.18	3.23		1.52			2.00	3.38	2.10	1.49
Yi MINIMUM	0.04	-0.16	0.03	-0.20	-0.01	-0.03	0.08		0.01			-0.07	-0.03	-0.08	0.36
Yi MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			0.00	0.00		
Yi STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00			1.00	1.00		
Ratings MEAN	62.73	12.58	0.29	0.15	19.81	0.52	0.28		62.94			96.36	298.60		
Ratings STD	6.21	2.34	0.46	0.24	1.75	0.31	0.25		4.64			8.00	63.29		

Heavy Duty Diesel Rating Workshop

PART ID = A6 square

RATED VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4	TGF	UWPD	WPD
GARRETT	59.90	6.50	0.32	0.16	10.37	0.33	0.12	59.00	77.70	194.40
MAY	54.49	6.17	0.28	0.19	10.42	0.36	0.29	67.00	72.20	193.11
KOBRINETZ	54.93	6.24	0.20	0.11	10.30	0.27	0.19	64.00	72.24	180.13
SMITH	67.75	7.29	1.50	1.00	12.00	2.15	1.50	57.00	93.19	400.65
LOPEZ	46.85	6.36	0.33	0.13	12.28	0.58	0.25	45.00	66.77	193.88
RODRIGUEZ	55.25	6.54	0.13	0.10	10.88	0.16	0.10	49.00	73.16	176.98
AHLWARDT	58.50	6.60	0.02	0.00	13.04	0.25	0.08	50.00	78.49	178.47
MACH	59.25	6.07	0.38	0.21	6.42	1.23	0.80	60.00	74.36	223.02
HOLLAND	61.25	6.24	0.31	0.20	11.72	0.60	0.55	62.00	80.87	220.70
GREENLAND	50.83	5.53	0.30	0.30	8.59	0.22	0.26	60.00	66.03	181.20
PLAIZIER	55.90	5.85	0.12	0.03	9.47	0.32	0.25	40.00	71.94	169.00
CASTILLO	53.08	5.52	0.12	0.06	11.62	0.53	0.34	66.00	71.27	179.85
WALKER	60.60	6.70	0.60	0.40	10.80	0.56	0.40	55.00	80.06	239.60
SOZZI	59.57	6.15	0.70	0.02	8.91	0.33	0.27	55.00	75.93	193.95
DAVEY	66.75	6.54	0.15	0.05	10.74	0.46	0.23	65.00	84.92	195.74
FOECKING	60.50	6.30	0.18	0.02	11.66	0.28	0.08	57.00	79.01	180.27
LOVE	58.75	6.94	0.40	0.30	11.85	0.50	0.48	65.00	79.22	231.43
VIERA	54.09	5.83	0.13	0.08	9.87	0.26	0.10	60.00	70.36	165.79
CASSIDY	58.12	6.02	0.00	0.00	10.55	0.45	0.20	65.00	75.34	171.25
HILLS	51.12	6.91	0.20	0.20	13.00	0.42	0.38	41.00	72.23	208.42
MAXIMUM	67.75	7.29	1.50	1.00	13.04	2.15	1.50	67.00	93.19	400.65
MINIMUM	46.85	5.52	0.00	0.00	6.42	0.16	0.08	40.00	66.03	165.79
MEAN	57.37	6.31	0.32	0.18	10.72	0.51	0.34	57.10	75.76	203.89
STD	5.09	0.46	0.33	0.22	1.58	0.45	0.33	8.23	6.29	50.89
STD/MEAN, %	8.87%	7.24%	103.13%	125.52%	14.77%	87.38%	95.01%	14.42%	8.30%	24.96%



yi within 1 81.9%
 yi within 2 94.4%
 yi within 3 97.5%
 yi >3 2.5%

PART ID = A6 square

Yi VALUES

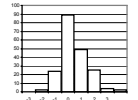
	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4	TGF	UWPD	WPD	MEAN	STD
GARRETT	0.50	0.41	0.01	-0.08	-0.22	-0.41	-0.68	0.23	0.31	-0.19	-0.01	0.38
MAY	-0.57	-0.32	-0.12	0.05	-0.19	-0.34	-0.16	1.20	-0.57	-0.21	-0.12	0.50
KOBRINETZ	-0.48	-0.16	-0.36	-0.30	-0.27	-0.54	-0.47	0.84	-0.56	-0.47	-0.28	0.41
SMITH	2.04	2.13	3.60	3.69	0.81	3.66	3.55	-0.01	2.77	3.87	2.61	1.35
LOPEZ	-2.07	0.09	0.02	-0.24	0.98	0.15	-0.28	-1.47	-1.43	-0.20	-0.44	0.92
RODRIGUEZ	-0.42	0.49	-0.57	-0.35	0.10	-0.79	-0.75	-0.98	-0.41	-0.53	-0.42	0.43
AHLWARDT	0.22	0.62	-0.91	-0.80	1.46	-0.59	-0.82	-0.86	0.43	-0.50	-0.17	0.81
MACH	0.37	-0.54	0.19	0.14	-2.72	1.60	1.40	0.35	-0.22	0.38	0.10	1.18
HOLLAND	0.76	-0.16	-0.03	0.10	0.63	0.20	0.64	0.60	0.81	0.33	0.39	0.35
GREENLAND	-1.29	-1.72	-0.06	0.55	-1.35	-0.65	-0.25	0.35	-1.55	-0.45	-0.64	0.80
PLAIZIER	-0.29	-1.02	-0.60	-0.66	-0.79	-0.43	-0.28	-2.08	-0.61	-0.69	-0.75	0.52
CASTILLO	-0.84	-1.74	-0.60	-0.53	0.57	0.04	-0.01	1.08	-0.71	-0.47	-0.32	0.79
WALKER	0.63	0.84	0.86	1.00	0.05	0.11	0.18	-0.26	0.68	0.70	0.48	0.42
SOZZI	0.43	-0.35	1.16	-0.71	-1.15	-0.42	-0.24	-0.26	0.03	-0.20	-0.17	0.63
DAVEY	1.84	0.49	-0.51	-0.57	0.01	-0.12	-0.35	0.96	1.46	-0.16	0.31	0.85
FOECKING	0.61	-0.04	-0.41	-0.71	0.59	-0.53	-0.82	-0.01	0.52	-0.46	-0.13	0.54
LOVE	0.27	1.37	0.25	0.55	0.71	-0.03	0.42	0.96	0.55	0.54	0.56	0.39
VIERA	-0.65	-1.06	-0.57	-0.44	-0.54	-0.56	-0.75	0.35	-0.86	-0.75	-0.58	0.37
CASSIDY	0.15	-0.65	-0.97	-0.80	-0.11	-0.14	-0.44	0.96	-0.07	-0.64	-0.27	0.56
HILLS	-1.23	1.30	-0.36	0.10	1.44	-0.21	0.11	-1.96	-0.56	0.09	-0.13	1.02
Yi MAXIMUM	-2.07	2.13	3.60	3.69	-2.72	3.66	3.55	-2.08	2.77	3.87	2.61	1.35
Yi MINIMUM	0.15	-0.04	0.01	0.05	0.01	-0.03	-0.01	-0.01	0.03	0.09	-0.01	0.35
Yi MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yi STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ratings MEAN	57.37	6.31	0.32	0.18	10.72	0.51	0.34	57.10	75.76	203.89		
Ratings STD	5.09	0.46	0.33	0.22	1.58	0.45	0.33	8.23	6.29	50.89		

Heavy Duty Diesel Rating Workshop

PART ID = B1 two-piece

RATED VALUES

	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD
AVIS	21.75	15.70	1.57		18.30	11.23	1.97	0.53	16.25	7.48	22.30	5.00	0.00	0.00	94.78	265.18
GARCIA, P	30.75	16.15	1.64		21.00	14.08	2.50	0.97	5.10	9.22	22.00	7.00	0.00	0.00	101.41	323.90
KOBRINETZ	29.50	17.54	2.14		19.88	13.48	2.50	1.01	12.42	7.75	18.00	8.00	0.00	0.00	106.22	341.64
HOLLAND	30.25	15.33	1.86		19.93	12.48	2.13	0.56	6.60	8.93	23.00	8.00	0.00	0.00	98.07	288.32
MAY	29.50	17.12	1.62		15.72	17.28	2.62	0.69	7.15	8.23	13.00	6.00	0.00	1.00	99.93	315.39
SMITH	36.25	16.00	2.53		17.01	19.10	2.40	1.63	4.20	7.49	16.00	3.00	0.00	0.00	106.61	399.16
RODRIGUEZ	30.50	19.80	1.90		16.02	14.28	2.04	0.64	12.34	7.44	11.00	3.00	0.00	0.00	104.96	312.52
BROWN	35.71	14.99	2.26		10.56	10.75	2.38	0.42	4.80	6.28	18.00	12.00	0.00	0.00	88.15	285.14
FOECKING	30.00	15.84	2.34		22.50	16.28	2.50	1.08	6.60	8.60	11.00	5.00	0.00	0.00	105.73	351.05
HURTADO	31.10	16.31	2.08		16.00	16.00	2.30	0.73	6.00	6.90	23.25	7.75	0.00	0.50	97.42	315.98
HILLS	26.04	16.11	2.15		24.20	11.95	2.68	1.13	2.40	7.40	20.00	12.00	0.00	0.00	94.06	330.96
POZZI	29.75	14.48	1.98		19.02	13.91	1.85	0.82	7.16	7.35	11.00	4.00	0.00	0.00	96.32	300.03
RANSFORD	28.44	16.34	2.05		15.34	12.51	2.50	0.50	6.71	7.48	12.00	8.00	0.00	0.00	91.87	290.22
DAVEY	31.62	14.97	2.80		13.70	17.37	2.07	0.49	3.33	7.75	25.00	3.00	1.00	0.00	94.10	307.97
MAY	31.25	17.98	1.73		20.75	17.12	2.80	0.90	9.22	8.50	18.00	10.00	0.00	0.00	110.25	346.62
MAXIMUM	36.25	19.80	2.80		24.20	19.10	2.80	1.63	16.25	9.22	25.00	12.00	1.00	1.00	110.25	399.16
MINIMUM	21.75	14.48	1.57		10.56	10.75	1.85	0.42	2.40	6.28	11.00	3.00	0.00	0.00	88.15	265.18
MEAN	30.16	16.31	2.04		18.00	14.52	2.35	0.81	7.35	7.79	17.57	6.78	0.07	0.10	99.32	318.27
STD	3.43	1.36	0.35		3.57	2.54	0.28	0.32	3.77	0.78	4.99	3.02	0.26	0.28	6.37	33.00
STD/MEAN, %	11.36%	8.31%	17.00%		19.85%	17.49%	11.92%	40.06%	51.27%	10.01%	28.43%	44.55%	387.30%	280.31%	6.41%	10.37%



yi within 1 70.8%
 yi within 2 95.9%
 yi within 3 99.0%
 yi >3 1.0%

PART ID = B1 two-piece

Yi VALUES

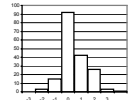
	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
AVIS	-2.46	-0.45	-1.36		0.09	-1.30	-1.35	-0.85	2.36	-0.39	0.95	-0.59	-0.26	-0.36	-0.71	-1.61	-0.55	1.13
GARCIA, P	0.17	-0.12	-1.16		0.84	-0.17	0.54	0.51	-0.60	1.84	0.89	0.07	-0.26	-0.36	0.33	0.17	0.18	0.71
KOBRINETZ	-0.19	0.91	0.28		0.53	-0.41	0.54	0.63	1.34	-0.05	0.09	0.40	-0.26	-0.36	1.08	0.71	0.35	0.54
HOLLAND	0.03	-0.72	-0.53		0.54	-0.80	-0.78	-0.76	-0.20	1.46	1.09	0.40	-0.26	-0.36	-0.20	-0.91	-0.13	0.72
MAY	-0.19	0.60	-1.22		-0.64	1.09	0.97	-0.36	-0.05	0.57	-0.91	-0.26	-0.26	3.21	0.10	-0.09	0.17	1.06
SMITH	1.78	-0.23	1.40		-0.28	1.80	0.18	2.55	-0.84	-0.38	-0.31	-1.25	-0.26	-0.36	1.14	2.45	0.49	1.24
RODRIGUEZ	0.10	2.57	-0.41		-0.55	-0.09	-1.10	-0.51	1.32	-0.44	-1.32	-1.25	-0.26	-0.36	0.88	-0.17	-0.11	1.02
BROWN	1.62	-0.97	0.62		-2.08	-1.48	0.11	-1.20	-0.68	-1.93	0.09	1.73	-0.26	-0.36	-1.75	-1.00	-0.50	1.18
FOECKING	-0.05	-0.35	0.85		1.26	0.69	0.54	0.83	-0.20	1.04	-1.32	-0.59	-0.26	-0.36	1.01	0.99	0.27	0.76
HURTADO	0.27	0.00	0.11		-0.56	0.58	-0.18	-0.24	-0.36	-1.14	1.14	0.32	-0.26	1.43	-0.30	-0.07	0.05	0.64
HILLS	-1.20	-0.15	0.31		1.74	-1.01	1.18	1.00	-1.31	-0.50	0.49	1.73	-0.26	-0.36	-0.83	0.38	0.08	1.00
POZZI	-0.12	-1.35	-0.18		0.29	-0.24	-1.78	0.03	-0.05	-0.56	-1.32	-0.92	-0.26	-0.36	-0.47	-0.55	-0.52	0.58
RANSFORD	-0.50	0.02	0.02		-0.74	-0.79	0.54	-0.95	-0.17	-0.39	-1.12	0.40	-0.26	-0.36	-1.17	-0.85	-0.42	0.52
DAVEY	0.43	-0.99	2.18		-1.20	1.12	-1.00	-0.98	-1.07	-0.05	1.49	-1.25	3.61	-0.36	-0.82	-0.31	0.05	1.45
MAY	0.32	1.23	-0.90		0.77	1.02	1.61	0.29	0.50	0.92	0.09	1.06	-0.26	-0.36	1.72	0.86	0.59	0.74
Yi MAXIMUM	-2.46	2.57	2.18		-2.08	1.80	-1.78	2.55	2.36	-1.93	1.49	1.73	3.61	3.21	-1.75	2.45	0.59	1.45
Yi MINIMUM	0.03	0.00	0.02		0.09	-0.09	0.11	0.03	-0.05	-0.05	0.09	0.07	-0.26	-0.36	0.10	-0.07	0.05	0.52
Yi MEAN	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Yi STD	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Ratings MEAN	30.16	16.31	2.04		18.00	14.52	2.35	0.81	7.35	7.79	17.57	6.78	0.07	0.10	99.32	318.27		
Ratings STD	3.43	1.36	0.35		3.57	2.54	0.28	0.32	3.77	0.78	4.99	3.02	0.26	0.28	6.37	33.00		

Heavy Duty Diesel Rating Workshop

PART ID = B2 two-piece

RATED VALUES

	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD
GARCIA, P	22.90	7.57	2.35		18.60	12.00	1.42	0.52	4.20	6.45	13.00	12.00	0.00	0.00	76.01	237.14
AVIS	22.85	11.81	1.94		16.33	10.76	2.21	0.35	6.60	6.00	8.20	5.00	0.00	0.00	78.85	243.34
KOBRINETZ	23.20	10.33	1.99		14.77	9.08	2.90	0.58	5.85	5.10	6.00	3.00	0.00	0.00	73.80	260.40
HOLLAND	23.35	10.51	2.94		13.16	8.17	3.83	0.78	4.05	5.40	13.00	11.00	0.00	0.00	72.19	304.55
MAY	23.84	11.79	1.78		13.48	13.01	2.33	0.49	4.20	7.05	8.00	6.00	0.00	0.00	77.97	254.89
SMITH	31.20	11.68	2.70		14.29	11.37	2.91	0.63	2.86	4.66	10.00	4.00	0.00	0.00	82.30	301.03
BARRERA	24.91	12.71	2.42		21.80	11.54	2.58	1.12	2.10	3.60	11.00	3.00	0.00	0.00	82.78	315.47
FOECKING	23.46	13.54	3.15		19.42	12.93	3.32	1.38	7.35	5.83	5.00	5.00	1.00	0.00	90.37	368.12
BROWN	25.01	10.51	2.73		9.49	6.80	1.93	0.28	7.50	6.00	16.00	0.10	0.00	0.00	70.25	231.94
POZZI	27.38	8.91	2.92		18.70	9.51	1.96	0.68	6.90	6.90	27.00	5.00	0.00	0.00	83.85	277.07
HILLS	22.75	9.47	3.19		21.40	12.85	3.84	1.10	2.70	3.46	20.00	10.00	0.00	0.00	80.76	344.89
RODRIGUEZ	24.36	12.90	2.49		15.68	10.12	2.21	0.38	5.85	6.00	4.00	5.00	2.00	0.00	79.99	259.01
YANCHAR	27.60	12.20	2.11		14.88	13.50	2.38	0.46	5.70	4.65	13.00	8.00	0.00	0.00	83.48	272.61
HURTADO	23.08	10.97	2.58		16.75	10.77	2.21	0.64	3.76	5.94	10.90	6.30	0.00	0.00	76.70	269.06
MAXIMUM	31.20	13.54	3.19		21.80	13.50	3.84	1.38	7.50	7.05	27.00	12.00	2.00	0.00	90.37	368.12
MINIMUM	22.75	7.57	1.78		9.49	6.80	1.42	0.28	2.10	3.46	4.00	0.10	0.00	0.00	70.25	231.94
MEAN	24.71	11.06	2.52		16.34	10.89	2.57	0.67	4.97	5.50	11.79	5.96	0.21	0.00	79.23	281.39
STD	2.44	1.65	0.45		3.40	1.98	0.71	0.32	1.79	1.10	6.16	3.30	0.58	0.00	5.31	40.56
STD/MEAN, %	9.88%	14.94%	17.83%		20.80%	18.21%	27.65%	48.11%	36.09%	19.96%	52.22%	55.46%	270.17%	∞	6.70%	14.41%



yi within 1 73.6%
 yi within 2 96.2%
 yi within 3 99.5%
 yi >3 0.5%

PART ID = B2 two-piece

Yi VALUES

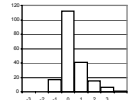
	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
GARCIA, P	-0.74	-2.11	-0.38		0.67	0.56	-1.62	-0.47	-0.43	0.86	0.20	1.83	-0.37	0.00	-0.61	-1.09	-0.25	0.99
AVIS	-0.76	0.45	-1.29		0.00	-0.06	-0.51	-0.99	0.91	0.45	-0.58	-0.29	-0.37	0.00	-0.07	-0.94	-0.27	0.60
KOBRINETZ	-0.62	-0.44	-1.18		-0.46	-0.91	0.46	-0.28	0.49	-0.37	-0.94	-0.90	-0.37	0.00	-1.02	-0.52	-0.47	0.50
HOLLAND	-0.56	-0.34	0.93		-0.94	-1.37	1.77	0.33	-0.51	-0.09	0.20	1.53	-0.37	0.00	-1.33	0.57	-0.01	0.93
MAY	-0.35	0.44	-1.65		-0.84	1.07	-0.34	-0.56	-0.43	1.41	-0.62	0.01	-0.37	0.00	-0.24	-0.65	-0.21	0.75
SMITH	2.66	0.37	0.40		-0.60	0.24	0.47	-0.12	-1.18	-0.77	-0.29	-0.59	-0.37	0.00	0.58	0.48	0.09	0.89
BARRERA	0.08	1.00	-0.22		1.61	0.33	0.01	1.40	-1.60	-1.73	-0.13	-0.90	-0.37	0.00	0.67	0.84	0.07	0.97
FOECKING	-0.51	1.50	1.39		0.91	1.03	1.05	2.20	1.32	0.29	-1.10	-0.29	1.36	0.00	2.10	2.14	0.89	1.01
BROWN	0.12	-0.34	0.47		-2.02	-2.06	-0.90	-1.21	1.41	0.45	0.68	-1.77	-0.37	0.00	-1.69	-1.22	-0.56	1.08
POZZI	1.09	-1.30	0.88		0.69	-0.69	-0.86	0.02	1.07	1.27	2.47	-0.29	-0.37	0.00	0.87	-0.11	0.32	0.99
HILLS	-0.80	-0.96	1.49		1.49	0.99	1.78	1.33	-1.27	-1.86	1.33	1.22	-0.37	0.00	0.29	1.57	0.42	1.21
RODRIGUEZ	-0.14	1.11	-0.07		-0.19	-0.39	-0.52	-0.90	0.49	0.45	-1.27	-0.29	3.08	0.00	0.14	-0.55	0.06	1.02
YANCHAR	1.18	0.69	-0.91		-0.43	1.32	-0.27	-0.65	0.41	-0.78	0.20	0.62	-0.37	0.00	0.80	-0.22	0.11	0.71
HURTADO	-0.67	-0.06	0.13		0.12	-0.06	-0.51	-0.09	-0.68	0.40	-0.14	0.10	-0.37	0.00	-0.48	-0.30	-0.17	0.32
Yi MAXIMUM	2.66	-2.11	-1.65		-2.02	-2.06	1.78	2.20	-1.60	-1.86	2.47	1.83	3.08	0.00	2.10	2.14	0.89	1.21
Yi MINIMUM	0.08	-0.06	-0.07		0.00	-0.06	0.01	0.02	0.41	-0.09	-0.13	0.01	-0.37	0.00	-0.07	-0.11	-0.01	0.32
Yi MEAN	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Yi STD	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00		
Ratings MEAN	24.71	11.06	2.52		16.34	10.89	2.57	0.67	4.97	5.50	11.79	5.96	0.21	0.00	79.23	281.39		
Ratings STD	2.44	1.65	0.45		3.40	1.98	0.71	0.32	1.79	1.10	6.16	3.30	0.58	0.00	5.31	40.56		

Heavy Duty Diesel Rating Workshop

PART ID = B3 keystone

RATED VALUES

	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3		Upper Skirt	Under-crown	TGF	2GF	TLHC	TLFC	UWPD	WPD
GARCIA, P	32.50	26.85	0.30		5.70	22.60	0.70		0.10	0.40	18.00	28.00	0.00	0.00	89.15	155.33
KOBRINETZ	33.50	25.60	1.10		5.11	18.92	0.38		0.13	0.42	18.00	26.00	0.00	0.00	85.16	164.58
AVIS	34.00	22.10	0.15		5.09	18.81	2.06		0.04	0.38	24.40	18.40	0.00	0.00	82.63	172.90
HOLLAND	32.50	20.65	0.18		5.05	28.76	1.32		0.11	0.27	19.00	27.00	0.00	0.00	88.84	161.81
SMITH	34.50	30.21	1.50		4.50	29.35	2.16		1.00	0.76	16.00	12.00	0.00	0.00	103.98	287.62
BARRERA	34.75	26.29	0.26		5.36	23.08	1.42		0.14	0.68	17.00	22.00	0.00	0.00	91.98	182.60
FOECKING	35.00	24.25	0.18		9.33	22.99	3.86		0.04	0.45	19.00	13.00	0.00	0.00	96.10	233.17
CLAPPERTY	31.75	23.97	0.19		12.58	18.99	0.66		0.18	0.17	17.00	10.00	0.00	0.00	88.49	148.80
POZZI	30.50	24.87	0.07		2.44	22.44	0.97		0.02	0.43	17.00	12.00	0.00	0.00	81.74	143.44
HILLS	31.75	24.02	0.20		4.81	22.30	2.16		0.10	0.22	16.00	25.00	0.00	0.00	85.56	179.17
RODRIGUEZ	31.00	23.62	0.13		5.94	19.24	1.81		0.11	0.14	15.00	11.00	0.00	0.00	81.99	163.91
AHLWARDT	33.50	22.18	0.17		8.20	26.50	2.82		0.01	0.07	18.00	16.00	0.00	0.00	93.45	194.87
GREENLAND	33.25	22.60	0.30		5.00	22.60	0.66		0.30	0.30	18.00	23.00	0.00	0.00	85.01	156.38
RANSFORD	36.06	22.56	0.26		4.51	23.64	1.21		0.04	0.53	18.00	20.00	0.00	0.00	88.81	165.43
MAY	32.25	23.72	0.21		4.23	21.16	0.61		0.05	0.27	17.00	20.00	0.00	0.00	82.50	137.75
HURTADO	33.88	23.17	0.46		5.32	25.83	1.13		0.08	0.14	13.00	7.00	0.00	0.00	90.01	163.28
MAXIMUM	36.06	30.21	1.50		12.58	29.35	3.86		1.00	0.76	24.40	28.00	0.00	0.00	103.98	287.62
MINIMUM	30.50	20.65	0.07		2.44	18.81	0.38		0.01	0.07	13.00	7.00	0.00	0.00	81.74	137.75
MEAN	33.17	24.17	0.35		5.82	22.95	1.50		0.15	0.35	17.53	18.15	0.00	0.00	88.46	175.69
STD	1.53	2.28	0.39		2.38	3.30	0.94		0.24	0.19	2.39	6.72	0.00	0.00	5.93	37.39
STD/MEAN, %	4.61%	9.43%	109.45%		40.86%	14.37%	62.79%		154.74%	55.18%	13.61%	37.04%	∞	∞	6.70%	21.28%



yi within 1 79.7%
 yi within 2 96.4%
 yi within 3 99.5%
 yi >3 0.5%

PART ID = B3 keystone

Yi VALUES

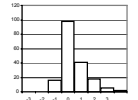
	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3		Upper Skirt	Under-crown	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
GARCIA, P	-0.44	1.18	-0.14		-0.05	-0.11	-0.85		-0.22	0.25	0.20	1.47	0.00	0.00	0.12	-0.54	0.06	0.61
KOBRINETZ	0.22	0.63	1.93		-0.30	-1.22	-1.19		-0.10	0.35	0.20	1.17	0.00	0.00	-0.56	-0.30	0.06	0.83
AVIS	0.54	-0.91	-0.53		-0.31	-1.26	0.60		-0.48	0.15	2.88	0.04	0.00	0.00	-0.98	-0.07	-0.02	1.00
HOLLAND	-0.44	-1.54	-0.46		-0.32	1.76	-0.19		-0.18	-0.42	0.62	1.32	0.00	0.00	0.06	-0.37	-0.01	0.81
SMITH	0.87	2.65	2.96		-0.56	1.94	0.71		3.57	2.11	-0.64	-0.91	0.00	0.00	2.62	2.99	1.31	1.56
BARRERA	1.04	0.93	-0.24		-0.19	0.04	-0.08		-0.06	1.69	-0.22	0.57	0.00	0.00	0.59	0.18	0.30	0.58
FOECKING	1.20	0.04	-0.45		1.47	0.01	2.52		-0.48	0.51	0.62	-0.77	0.00	0.00	1.29	1.54	0.54	0.95
CLAPPERTY	-0.93	-0.09	-0.42		2.84	-1.20	-0.89		0.11	-0.94	-0.22	-1.21	0.00	0.00	0.00	-0.72	-0.26	1.01
POZZI	-1.75	0.31	-0.73		-1.42	-0.15	-0.56		-0.56	0.38	-0.22	-0.91	0.00	0.00	-1.13	-0.86	-0.54	0.64
HILLS	-0.93	-0.06	-0.40		-0.43	-0.20	0.71		-0.22	-0.68	-0.64	1.02	0.00	0.00	-0.49	0.09	-0.16	0.53
RODRIGUEZ	-1.42	-0.24	-0.58		0.05	-1.13	0.33		-0.18	-1.09	-1.06	-1.06	0.00	0.00	-1.09	-0.31	-0.56	0.57
AHLWARDT	0.22	-0.87	-0.47		1.00	1.08	1.41		-0.60	-1.45	0.20	-0.32	0.00	0.00	0.84	0.51	0.11	0.81
GREENLAND	0.05	-0.69	-0.14		-0.35	-0.11	-0.89		0.62	-0.27	0.20	0.72	0.00	0.00	-0.58	-0.52	-0.14	0.46
RANSFORD	1.89	-0.70	-0.24		-0.55	0.21	-0.30		-0.48	0.92	0.20	0.28	0.00	0.00	0.06	-0.27	0.07	0.67
MAY	-0.60	-0.20	-0.37		-0.67	-0.54	-0.94		-0.44	-0.42	-0.22	0.28	0.00	0.00	-1.01	-1.01	-0.44	0.39
HURTADO	0.47	-0.44	0.28		-0.21	0.87	-0.39		-0.31	-1.09	-1.90	-1.66	0.00	0.00	0.26	-0.33	-0.32	0.78
Yi MAXIMUM	1.89	2.65	2.96		2.84	1.94	2.52		3.57	2.11	2.88	-1.66	0.00	0.00	2.62	2.99	1.31	1.56
Yi MINIMUM	0.05	0.04	-0.14		0.05	0.01	-0.08		-0.06	0.15	0.20	0.04	0.00	0.00	0.00	-0.07	-0.01	0.39
Yi MEAN	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Yi STD	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00		
Ratings MEAN	33.17	24.17	0.35		5.82	22.95	1.50		0.15	0.35	17.53	18.15	0.00	0.00	88.46	175.69		
Ratings STD	1.53	2.28	0.39		2.38	3.30	0.94		0.24	0.19	2.39	6.72	0.00	0.00	5.93	37.39		

Heavy Duty Diesel Rating Workshop

PART ID = B4 keystone

RATED VALUES

	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3		Upper Skirt	Under-crown	TGF	2GF	TLHC	TLFC	UWPD	WPD
GARCIA, P	27.25	19.70	0.42		7.76	35.50	0.58		0.54	0.10	8.00	18.00	0.00	0.00	91.85	167.69
BARRERA	26.43	22.76	0.48		5.67	38.50	0.46		0.10	0.84	8.00	12.00	0.00	0.00	95.24	163.26
KOBRINETZ	25.05	21.18	0.42		5.52	39.25	0.43		0.23	0.53	10.00	14.00	0.00	0.00	92.61	157.47
AVIS	26.10	25.00	0.25		3.87	34.75	0.63		0.04	0.32	10.60	10.10	0.00	0.00	90.96	145.67
HOLLAND	23.90	22.36	0.54		6.65	34.00	0.64		0.10	0.28	9.00	18.00	0.00	0.00	88.47	150.12
MAY	24.48	20.30	0.29		2.72	37.75	0.41		0.09	0.28	7.00	15.00	0.00	0.00	86.32	135.24
FOECKING	27.00	22.22	0.15		7.08	49.51	0.48		0.02	0.90	12.00	8.00	0.00	0.00	107.35	164.92
SMITH	26.95	18.40	1.20		3.61	47.50	1.20		1.00	1.33	4.00	4.00	0.00	0.00	101.19	255.74
RODRIGUEZ	24.22	23.49	0.25		3.01	35.50	0.37		0.14	0.19	5.00	7.00	0.00	0.00	87.17	136.38
AHLWARDT	26.45	19.00	0.15		6.08	32.50	0.53		0.03	0.09	16.00	15.00	0.00	0.00	84.83	127.06
HILLS	24.37	22.03	0.44		3.04	40.00	0.54		0.10	0.48	17.00	19.00	0.00	0.00	91.00	151.74
BROWN	22.92	20.40	0.29		2.67	40.75	0.59		0.30	0.50	10.00	4.00	0.00	0.00	88.42	155.40
POZZI	24.97	22.60	0.45		2.15	35.50	1.23		0.09	0.60	10.00	5.00	0.00	0.00	87.58	167.25
CAMPBELL	24.00	19.38	0.30		8.02	41.50	0.47		0.02	0.25	7.00	9.00	0.00	0.00	93.94	139.84
HURTADO	24.20	19.82	0.54		3.07	44.95	0.57		0.04	0.18	15.60	14.00	0.00	0.00	93.37	147.40
MAXIMUM	27.25	25.00	1.20		8.02	49.51	1.23		1.00	1.33	17.00	19.00	0.00	0.00	107.35	255.74
MINIMUM	22.92	18.40	0.15		2.15	32.50	0.37		0.02	0.09	4.00	4.00	0.00	0.00	84.83	127.06
MEAN	25.22	21.24	0.41		4.73	39.16	0.61		0.19	0.46	9.95	11.47	0.00	0.00	92.02	157.68
STD	1.36	1.87	0.25		2.04	5.01	0.26		0.26	0.34	3.86	5.16	0.00	0.00	5.92	29.82
STD/MEAN, %	5.40%	8.78%	61.39%		43.07%	12.80%	42.48%		139.46%	75.31%	38.81%	45.02%	∞	∞	6.43%	18.91%



yi within 1 77.2%
 yi within 2 96.1%
 yi within 3 98.9%
 yi >3 1.1%

PART ID = B4 keystone

Yi VALUES

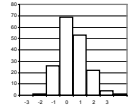
	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3		Upper Skirt	Under-crown	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
GARCIA, P	1.49	-0.83	0.03		1.49	-0.73	-0.11		1.33	-1.04	-0.50	1.26	0.00	0.00	-0.03	0.34	0.19	0.88
BARRERA	0.89	0.81	0.27		0.46	-0.13	-0.58		-0.34	1.11	-0.50	0.10	0.00	0.00	0.54	0.19	0.20	0.52
KOBRINETZ	-0.12	-0.03	0.03		0.39	0.02	-0.69		0.16	0.21	0.01	0.49	0.00	0.00	0.10	-0.01	0.04	0.27
AVIS	0.65	2.01	-0.64		-0.42	-0.88	0.08		-0.57	-0.40	0.17	-0.27	0.00	0.00	-0.18	-0.40	-0.06	0.71
HOLLAND	-0.97	0.60	0.51		0.94	-1.03	0.12		-0.34	-0.52	-0.25	1.26	0.00	0.00	-0.60	-0.25	-0.04	0.68
MAY	-0.54	-0.51	-0.48		-0.99	-0.28	-0.77		-0.38	-0.52	-0.76	0.68	0.00	0.00	-0.96	-0.75	-0.45	0.45
FOECKING	1.31	0.52	-1.03		1.16	2.06	-0.49		-0.66	1.27	0.53	-0.67	0.00	0.00	2.59	0.24	0.49	1.08
SMITH	1.27	-1.52	3.12		-0.55	1.66	2.29		3.08	2.53	-1.54	-1.45	0.00	0.00	1.55	3.29	0.98	1.80
RODRIGUEZ	-0.73	1.20	-0.64		-0.84	-0.73	-0.92		-0.19	-0.78	-1.28	-0.87	0.00	0.00	-0.82	-0.71	-0.52	0.61
AHLWARDT	0.90	-1.20	-1.03		0.66	-1.33	-0.30		-0.60	-1.07	1.57	0.68	0.00	0.00	-1.21	-1.03	-0.28	0.94
HILLS	-0.62	0.42	0.11		-0.83	0.17	-0.27		-0.34	0.06	1.83	1.46	0.00	0.00	-0.17	-0.20	0.12	0.72
BROWN	-1.69	-0.45	-0.48		-1.01	0.32	-0.07		0.42	0.12	0.01	-1.45	0.00	0.00	-0.61	-0.08	-0.35	0.64
POZZI	-0.19	0.73	0.15		-1.27	-0.73	2.40		-0.39	0.41	0.01	-1.25	0.00	0.00	-0.75	0.32	-0.04	0.92
CAMPBELL	-0.90	-1.00	-0.44		1.62	0.47	-0.54		-0.64	-0.60	-0.76	-0.48	0.00	0.00	0.32	-0.60	-0.25	0.69
HURTADO	-0.75	-0.76	0.51		-0.81	1.15	-0.15		-0.57	-0.81	1.46	0.49	0.00	0.00	0.23	-0.34	-0.02	0.73
Yi MAXIMUM	-1.69	2.01	3.12		1.62	2.06	2.40		3.08	2.53	1.83	1.46	0.00	0.00	2.59	3.29	0.98	1.80
Yi MINIMUM	-0.12	-0.03	0.03		0.39	0.02	-0.07		0.16	0.06	0.01	0.10	0.00	0.00	-0.03	-0.01	-0.02	0.27
Yi MEAN	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Yi STD	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00		
Ratings MEAN	25.22	21.24	0.41		4.73	39.16	0.61		0.19	0.46	9.95	11.47	0.00	0.00	92.02	157.68		
Ratings STD	1.36	1.87	0.25		2.04	5.01	0.26		0.26	0.34	3.86	5.16	0.00	0.00	5.92	29.82		

Heavy Duty Diesel Rating Workshop

PART ID = B5 square

RATED VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4	TGF	UWPD	WPD
BARRERA	41.24	21.42	0.18	0.18	19.26	0.34	0.20	38.00	82.82	355.55
GARCIA, P	39.15	22.20	0.10	0.06	19.76	0.44	0.06	30.00	81.77	348.91
HOLLAND	37.90	20.23	0.08	0.08	16.86	0.64	0.30	32.00	76.09	330.91
AVIS	33.43	19.01	0.12	0.13	19.40	0.21	0.10	36.60	72.40	312.43
TSCHIRHART	33.72	19.05	0.10	0.10	17.15	0.20	0.10	39.00	70.42	302.25
KOBRINETZ	35.10	19.60	0.20	0.20	18.22	0.40	0.20	35.00	73.92	330.87
MAY	36.93	19.29	0.02	0.00	18.73	0.28	0.02	44.00	75.27	302.39
FOECKING	31.04	23.40	0.00	0.01	21.59	0.38	0.04	36.00	76.47	350.44
LOPEZ	41.25	21.30	0.03	0.03	20.68	0.18	0.00	27.00	83.47	333.38
WALKER	41.30	21.98	0.40	0.40	17.48	1.00	0.20	41.00	82.76	391.28
CONTI	50.33	20.01	0.00	0.00	17.09	0.33	0.42	33.00	88.17	331.44
CAPRONI	48.63	14.05	0.20	0.10	15.80	0.18	0.20	35.00	79.16	269.03
CASTILLO	33.60	18.24	0.09	0.10	18.24	0.77	0.20	40.00	71.24	312.39
POZZI	37.45	14.60	0.00	0.00	15.53	0.38	0.03	33.00	67.98	246.16
AHLWARDT	39.75	19.45	0.01	0.00	21.60	1.95	0.01	35.00	82.77	349.55
RODRIGUEZ	30.17	20.20	0.10	0.10	17.66	0.17	0.10	29.00	68.50	311.38
SMITH	43.99	20.90	0.02	0.02	21.96	1.00	0.16	40.00	88.05	357.55
HILLS	31.50	20.20	0.20	0.20	19.68	0.54	0.20	33.00	72.52	341.18
CLAPPERTY	30.30	19.09	0.19	0.18	15.48	0.21	0.19	31.00	65.64	305.48
BROWN	47.36	14.75	0.20	0.20	17.06	0.33	0.30	34.00	80.20	292.67
GREENLAND	37.82	17.20	0.30	0.30	18.85	0.60	0.30	35.00	75.37	329.80
HURTADO	46.35	17.11	0.20	0.20	18.27	0.58	0.30	38.50	83.01	324.50
MAXIMUM	50.33	23.40	0.40	0.40	21.96	1.95	0.42	44.00	88.17	391.28
MINIMUM	30.17	14.05	0.00	0.00	15.48	0.17	0.00	27.00	65.64	246.16
MEAN	38.56	19.24	0.12	0.12	18.47	0.50	0.16	35.23	77.18	324.07
STD	6.04	2.46	0.11	0.11	1.90	0.41	0.11	4.20	6.47	31.59
STD/MEAN, %	15.68%	12.80%	85.47%	90.31%	10.31%	80.47%	69.72%	11.91%	8.38%	9.75%



yi within 1 69.3%
 yi within 2 96.6%
 yi within 3 99.4%
 yi >3 0.6%

PART ID = B5 square

YI VALUES

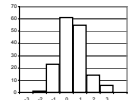
	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4	TGF	UWPD	WPD	MEAN	STD
BARRERA	0.44	0.89	0.52	0.58	0.41	-0.41	0.31	0.66	0.87	1.00	0.53	0.40
GARCIA, P	0.10	1.20	-0.23	-0.54	0.68	-0.16	-0.91	-1.25	0.71	0.79	0.04	0.80
HOLLAND	-0.11	0.40	-0.42	-0.36	-0.85	0.33	1.18	-0.77	-0.17	0.22	-0.05	0.61
AVIS	-0.85	-0.09	-0.04	0.11	0.49	-0.73	-0.56	0.33	-0.74	-0.37	-0.25	0.47
TSCHIRHART	-0.80	-0.08	-0.23	-0.17	-0.69	-0.75	-0.56	0.90	-1.05	-0.69	-0.41	0.55
KOBRINETZ	-0.57	0.15	0.71	0.77	-0.13	-0.26	0.31	-0.06	-0.50	0.22	0.06	0.46
MAY	-0.27	0.02	-0.98	-1.11	0.14	-0.55	-1.26	2.09	-0.30	-0.69	-0.29	0.96
FOECKING	-1.24	1.69	-1.17	-0.99	1.64	-0.31	-1.09	0.18	-0.11	0.83	-0.06	1.13
LOPEZ	0.45	0.84	-0.89	-0.83	1.16	-0.80	-1.43	-1.96	0.97	0.29	-0.22	1.10
WALKER	0.45	1.11	2.59	2.65	-0.52	1.22	0.31	1.37	0.86	2.13	1.22	1.02
CONTI	1.95	0.31	-1.17	-1.11	-0.72	-0.44	2.22	-0.53	1.70	0.23	0.24	1.28
CAPRONI	1.67	-2.11	0.71	-0.17	-1.40	-0.80	0.31	-0.06	0.31	-1.74	-0.33	1.18
CASTILLO	-0.82	-0.41	-0.32	-0.17	-0.12	0.65	0.31	1.14	-0.92	-0.37	-0.10	0.64
POZZI	-0.18	-1.88	-1.17	-1.11	-1.55	-0.32	-1.22	-0.53	-1.42	-2.47	-1.18	0.71
AHLWARDT	0.20	0.09	-1.08	-1.11	1.64	3.56	-1.35	-0.06	0.86	0.81	0.36	1.48
RODRIGUEZ	-1.39	0.39	-0.23	-0.17	-0.43	-0.82	-0.56	-1.49	-1.34	-0.40	-0.64	0.61
SMITH	0.90	0.67	-0.98	-0.92	1.83	1.22	-0.04	1.14	1.68	1.06	0.66	0.99
HILLS	-1.17	0.39	0.71	0.77	0.64	0.09	0.31	-0.53	-0.72	0.54	0.10	0.68
CLAPPERTY	-1.37	-0.06	0.61	0.58	-1.57	-0.73	0.22	-1.01	-1.78	-0.59	-0.57	0.88
BROWN	1.46	-1.82	0.71	0.77	-0.74	-0.43	1.18	-0.29	0.47	-0.99	0.03	1.05
GREENLAND	-0.12	-0.83	1.65	1.71	0.20	0.24	1.18	-0.06	-0.28	0.18	0.39	0.85
HURTADO	1.29	-0.86	0.71	0.77	-0.11	0.19	1.18	0.78	0.90	0.01	0.49	0.67
Yi MAXIMUM	1.95	-2.11	2.59	2.65	1.83	3.56	2.22	2.09	-1.78	-2.47	1.22	1.48
Yi MINIMUM	0.10	0.02	-0.04	0.11	-0.11	0.09	-0.04	-0.06	-0.11	0.01	0.03	0.40
Yi MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Yi STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Ratings MEAN	38.56	19.24	0.12	0.12	18.47	0.50	0.16	35.23	77.18	324.07		
Ratings STD	6.04	2.46	0.11	0.11	1.90	0.41	0.11	4.20	6.47	31.59		

Heavy Duty Diesel Rating Workshop

PART ID = B6 square

RATED VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4	TGF	UWPD	WPD
BARRERA	33.34	13.82	0.68	0.35	22.06	1.48	0.74	31.00	72.47	352.55
GARCIA, P	38.33	10.95	0.63	0.20	22.73	1.48	0.95	27.00	75.27	326.29
KOBRINETZ	32.49	13.80	0.70	0.50	21.80	2.00	0.66	26.00	71.95	369.39
HOLLAND	28.05	12.49	0.56	0.09	21.87	1.09	0.68	26.00	64.83	301.10
TSCHIRHART	32.06	12.80	0.84	0.10	25.15	1.50	0.74	33.00	73.19	340.39
AVIS	27.49	13.96	0.20	0.16	23.18	1.06	0.46	26.90	66.51	303.72
FOECKING	41.55	13.66	0.30	0.13	21.58	1.24	0.96	40.00	79.41	331.47
WALKER	40.90	12.04	0.60	0.59	21.70	2.02	1.36	34.00	79.21	387.55
LOPEZ	34.82	13.66	1.36	0.64	23.56	1.55	1.14	19.00	76.73	417.22
RODRIGUEZ	28.70	13.50	0.38	0.17	22.34	0.82	0.31	22.00	66.22	294.34
SMITH	33.56	12.68	1.50	1.00	24.82	2.00	1.25	23.00	76.81	453.48
CASTILLO	32.72	12.95	0.90	0.29	22.46	1.68	0.98	34.00	71.98	360.53
GREENLAND	30.88	9.88	0.50	0.38	22.00	1.33	0.90	33.00	65.87	308.88
POZZI	36.63	10.04	0.61	0.06	19.98	1.48	0.81	24.00	69.61	290.29
DAVEY	38.87	10.81	0.36	0.06	20.57	1.82	0.51	37.00	73.00	290.02
HILLS	26.75	13.30	0.66	0.39	21.96	1.15	0.75	24.00	64.96	336.26
AHLWARDT	37.09	10.51	0.74	0.01	23.30	0.76	0.42	30.00	72.83	280.24
YANCHAR	32.35	13.02	0.38	0.10	22.69	0.95	0.67	28.00	70.16	304.72
BROWN	37.97	9.22	0.33	0.24	21.51	1.66	0.61	32.00	71.54	288.36
MAY	36.59	13.45	0.73	0.17	21.61	0.95	0.41	28.00	73.91	317.53
MAXIMUM	41.55	13.96	1.50	1.00	25.15	2.02	1.36	40.00	79.41	453.48
MINIMUM	26.75	9.22	0.20	0.01	19.98	0.76	0.31	19.00	64.83	280.24
MEAN	34.06	12.33	0.65	0.28	22.34	1.40	0.77	28.90	71.82	332.71
STD	4.39	1.52	0.33	0.25	1.24	0.39	0.28	5.35	4.48	46.23
STD/MEAN, %	12.88%	12.33%	50.52%	87.80%	5.55%	28.06%	37.09%	18.52%	6.23%	13.89%



yi within 1 72.5%
 yi within 2 95.6%
 yi within 3 100.0%
 yi >3 0.0%

PART ID = B6 square

Yi VALUES

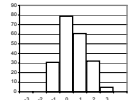
	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4	TGF	UWPD	WPD	MEAN	STD
BARRERA	-0.16	0.98	0.10	0.28	-0.23	0.20	-0.09	0.39	0.14	0.43	0.20	0.35
GARCIA, P	0.97	-0.91	-0.05	-0.33	0.31	0.20	0.65	-0.35	0.77	-0.14	0.11	0.58
KOBRINETZ	-0.36	0.97	0.16	0.88	-0.44	1.52	-0.37	-0.54	0.03	0.79	0.27	0.73
HOLLAND	-1.37	0.11	-0.26	-0.77	-0.38	-0.79	-0.30	-0.54	-1.56	-0.68	-0.66	0.51
TSCHIRHART	-0.46	0.31	0.59	-0.73	2.26	0.25	-0.09	0.77	0.31	0.17	0.34	0.81
AVIS	-1.50	1.07	-1.37	-0.49	0.67	-0.87	-1.08	-0.37	-1.19	-0.63	-0.57	0.85
FOECKING	1.71	0.88	-1.06	-0.62	-0.62	-0.42	0.69	2.08	1.70	-0.03	0.43	1.13
WALKER	1.56	-0.19	-0.15	1.25	-0.52	1.58	2.09	0.95	1.65	1.19	0.94	0.90
LOPEZ	0.17	0.88	2.18	1.45	0.98	0.38	1.32	-1.85	1.10	1.83	0.84	1.12
RODRIGUEZ	-1.22	0.77	-0.82	-0.45	0.00	-1.48	-1.60	-1.29	-1.25	-0.83	-0.82	0.74
SMITH	-0.11	0.23	2.60	2.91	2.00	1.52	1.71	-1.10	1.11	2.61	1.35	1.32
CASTILLO	-0.30	0.41	0.77	0.03	0.09	0.71	0.76	0.95	0.04	0.60	0.41	0.42
GREENLAND	-0.72	-1.61	-0.45	0.40	-0.28	-0.18	0.47	0.77	-1.33	-0.52	-0.34	0.76
POZZI	0.59	-1.50	-0.13	-0.90	-1.91	0.20	0.16	-0.91	-0.50	-0.92	-0.58	0.79
DAVEY	1.10	-1.00	-0.88	-0.90	-1.43	1.07	-0.90	1.51	0.26	-0.92	-0.21	1.08
HILLS	-1.67	0.64	0.04	0.44	-0.31	-0.64	-0.05	-0.91	-1.53	0.08	-0.39	0.78
AHLWARDT	0.69	-1.20	0.28	-1.10	0.77	-1.63	-1.22	0.21	0.22	-1.14	-0.41	0.92
YANCHAR	-0.39	0.46	-0.82	-0.73	0.28	-1.15	-0.34	-0.17	-0.37	-0.61	-0.38	0.49
BROWN	0.89	-2.04	-0.97	-0.17	-0.67	0.66	-0.55	0.58	-0.06	-0.96	-0.33	0.90
MAY	0.58	0.74	0.25	-0.45	-0.59	-1.15	-1.25	-0.17	0.47	-0.33	-0.19	0.70
Yi MAXIMUM	1.71	-2.04	2.60	2.91	2.26	-1.63	2.09	2.08	1.70	2.61	1.35	1.32
Yi MINIMUM	-0.11	0.11	0.04	0.03	0.00	-0.18	-0.05	-0.17	0.03	-0.03	0.11	0.35
Yi MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Yi STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Ratings MEAN	34.06	12.33	0.65	0.28	22.34	1.40	0.77	28.90	71.82	332.71		
Ratings STD	4.39	1.52	0.33	0.25	1.24	0.39	0.28	5.35	4.48	46.23		

Heavy Duty Diesel Rating Workshop

PART ID = C1 two-piece

RATED VALUES

	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD
CLAPPERTY	34.02	6.90	1.59		14.03	2.52	1.14	0.72	3.60	4.06	24.00	2.00	0.00	2.00	68.58	213.76
VIERA	43.23	6.73	1.52		20.34	4.25	2.10	0.85	7.76	6.90	37.00	1.00	6.00	1.00	93.68	274.35
TSCHIRHART	31.00	3.93	1.80		21.40	4.36	1.35	0.60	6.10	4.90	24.00	3.00	8.00	0.00	75.44	215.82
KOBRINETZ	32.55	6.77	1.45		18.18	3.48	2.00	0.55	4.65	5.52	32.00	1.00	3.00	0.00	75.15	223.44
GARCIA, P	35.00	5.18	1.48		18.35	4.45	1.68	0.52	4.80	6.00	26.00	3.00	0.00	0.00	77.46	219.44
AVIS	30.75	6.12	1.34		15.43	2.87	1.24	0.16	5.70	6.48	20.10	2.50	0.00	0.00	70.09	174.04
HOLLAND	36.50	5.38	2.35		19.54	2.97	1.70	0.85	5.46	3.90	30.00	2.00	7.00	0.00	78.65	256.90
GREENLAND	37.50	8.00	2.20		28.65	3.20	1.50	0.54	6.15	5.25	40.00	5.00	7.00	0.00	92.98	252.40
LOVE	48.75	6.15	1.22		21.40	3.37	1.52	0.37	4.80	4.65	45.00	3.00	8.00	0.00	92.23	231.59
CAPRONI	51.00	5.02	1.96		16.75	3.02	1.41	0.42	5.40	3.75	46.00	3.00	12.00	0.00	88.73	242.75
CASSIDY	35.85	5.82	1.40		12.30	4.52	1.84	0.30	6.90	3.00	23.00	1.00	6.00	0.00	71.93	206.22
RANSFORD	36.65	10.34	2.24		16.73	4.61	1.93	0.73	6.00	6.75	26.00	4.00	2.00	1.00	85.98	271.46
CAMPBELL	39.25	7.35	1.98		22.82	4.21	1.23	0.22	4.95	5.55	30.00	2.00	2.00	0.00	87.56	221.13
WRENCH	35.50	8.49	2.40		21.67	3.96	2.26	0.32	6.60	6.00	19.00	2.00	11.00	0.00	87.20	252.02
HILLS	31.75	5.96	2.38		13.20	3.33	1.91	0.64	3.60	4.04	25.00	3.00	0.00	0.00	66.81	234.39
BROWN	38.00	6.30	0.90		22.60	3.50	1.50	0.27	6.60	5.40	25.00	2.00	12.00	1.00	85.07	201.50
MAXIMUM	51.00	10.34	2.40		28.65	4.61	2.26	0.85	7.76	6.90	46.00	5.00	12.00	2.00	93.68	274.35
MINIMUM	30.75	3.93	0.90		12.30	2.52	1.14	0.16	3.60	3.00	19.00	1.00	0.00	0.00	66.81	174.04
MEAN	37.33	6.53	1.76		18.96	3.66	1.64	0.50	5.57	5.13	29.51	2.47	5.25	0.31	81.10	230.70
STD	5.87	1.52	0.47		4.23	0.67	0.34	0.22	1.15	1.16	8.37	1.09	4.34	0.60	9.14	26.81
STD/MEAN, %	15.72%	23.33%	26.40%		22.32%	18.34%	20.45%	43.58%	20.60%	22.53%	28.38%	44.04%	82.73%	192.67%	11.27%	11.62%



yi within 1 67.3%
 yi within 2 97.6%
 yi within 3 100.0%
 yi >3 0.0%

PART ID = C1 two-piece

Yi VALUES

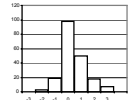
	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
CLAPPERTY	-0.56	0.24	-0.37		-1.17	-1.70	-1.50	0.99	-1.72	-0.93	-0.66	-0.43	-1.21	2.80	-1.37	-0.63	-0.55	1.18
VIERA	1.01	0.13	-0.52		0.33	0.87	1.35	1.58	1.91	1.53	0.89	-1.35	0.17	1.14	1.38	1.63	0.80	0.90
TSCHIRHART	-1.08	-1.71	0.08		0.58	1.04	-0.88	0.44	0.46	-0.20	-0.66	0.49	0.63	-0.52	-0.62	-0.56	-0.17	0.77
KOBRINETZ	-0.81	0.16	-0.67		-0.18	-0.27	1.06	0.21	-0.80	0.33	0.30	-1.35	-0.52	-0.52	-0.65	-0.27	-0.27	0.60
GARCIA, P	-0.40	-0.88	-0.61		-0.14	1.17	0.11	0.07	-0.67	0.75	-0.42	0.49	-1.21	-0.52	-0.40	-0.42	-0.21	0.63
AVIS	-1.12	-0.27	-0.91		-0.83	-1.18	-1.20	-1.57	0.12	1.16	-1.12	0.03	-1.21	-0.52	-1.20	-2.11	-0.80	0.80
HOLLAND	-0.14	-0.75	1.25		0.14	-1.03	0.17	1.58	-0.09	-1.07	0.06	-0.43	0.40	-0.52	-0.27	0.98	0.02	0.78
GREENLAND	0.03	0.96	0.94		2.29	-0.70	-0.43	0.17	0.51	0.10	1.25	2.33	0.40	-0.52	1.30	0.81	0.63	0.92
LOVE	1.95	-0.25	-1.17		0.58	-0.44	-0.37	-0.61	-0.67	-0.42	1.85	0.49	0.63	-0.52	1.22	0.03	0.15	0.94
CAPRONI	2.33	-0.99	0.42		-0.52	-0.96	-0.70	-0.38	-0.15	-1.20	1.97	0.49	1.55	-0.52	0.84	0.45	0.18	1.10
CASSIDY	-0.25	-0.46	-0.78		-1.57	1.27	0.58	-0.93	1.16	-1.84	-0.78	-1.35	0.17	-0.52	-1.00	-0.91	-0.48	0.93
RANSFORD	-0.12	2.50	1.03		-0.53	1.41	0.85	1.03	0.38	1.40	-0.42	1.41	-0.75	1.14	0.53	1.52	0.76	0.90
CAMPBELL	0.33	0.54	0.47		0.91	0.81	-1.23	-1.29	-0.54	0.36	0.06	-0.43	-0.75	-0.52	0.71	-0.36	-0.06	0.72
WRENCH	-0.31	1.29	1.37		0.64	0.44	1.83	-0.84	0.90	0.75	-1.25	-0.43	1.32	-0.52	0.67	0.80	0.44	0.91
HILLS	-0.95	-0.37	1.33		-1.36	-0.50	0.79	0.62	-1.72	-0.95	-0.54	0.49	-1.21	-0.52	-1.56	0.14	-0.42	0.92
BROWN	0.11	-0.15	-1.85		0.86	-0.24	-0.43	-1.06	0.90	0.23	-0.54	-0.43	1.55	1.14	0.43	-1.09	-0.04	0.93
Yi MAXIMUM	2.33	2.50	-1.85		2.29	-1.70	1.83	1.58	1.91	-1.84	1.97	2.33	1.55	2.80	-1.56	-2.11	0.80	1.18
Yi MINIMUM	0.03	0.13	0.08		0.14	-0.24	0.11	0.07	-0.09	0.10	0.06	0.03	0.17	-0.52	-0.27	0.03	0.02	0.60
Yi MEAN	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Yi STD	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Ratings MEAN	37.33	6.53	1.76		18.96	3.66	1.64	0.50	5.57	5.13	29.51	2.47	5.25	0.31	81.10	230.70		
Ratings STD	5.87	1.52	0.47		4.23	0.67	0.34	0.22	1.15	1.16	8.37	1.09	4.34	0.60	9.14	26.81		

Heavy Duty Diesel Rating Workshop

PART ID = C2 two-piece

RATED VALUES

	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD
VIERA	41.00	10.38	1.93		16.70	10.13	2.52	1.84	5.26	3.90	31.00	5.00	0.00	0.00	93.66	366.84
TSCHIRHART	31.00	10.50	1.80		13.80	7.95	2.20	0.70	4.90	4.90	25.00	8.00	0.00	0.00	77.75	260.50
KOBRINETZ	29.50	11.66	2.04		14.44	8.22	3.00	1.64	4.35	4.05	21.00	4.00	0.00	0.00	78.90	338.66
GARCIA, P	35.00	10.00	1.93		20.20	7.15	2.80	1.65	2.70	4.95	27.00	8.00	0.00	0.00	86.38	340.43
AVIS	27.75	9.46	1.62		15.93	7.82	1.88	0.92	5.70	6.00	16.90	3.90	0.00	0.00	77.08	257.17
CLAPPERTY	27.75	12.57	1.32		15.82	8.93	1.40	0.62	3.27	4.62	14.00	5.00	0.00	0.00	76.30	233.00
HOLLAND	29.50	10.04	2.18		13.12	8.46	2.50	1.70	5.50	4.80	28.00	5.00	0.00	0.00	77.80	331.02
LOVE	35.00	11.40	1.16		17.00	7.80	2.50	1.00	5.24	4.50	40.00	10.00	0.00	0.00	85.60	285.29
RANSFORD	28.44	12.70	1.55		13.56	8.58	2.13	1.13	7.20	7.19	26.00	7.00	0.00	0.00	82.48	286.48
DAVEY	28.57	11.62	1.87		13.34	11.42	2.10	0.98	3.90	5.94	10.00	2.00	0.00	0.00	79.74	284.67
YANCHAR	32.50	11.90	1.51		14.95	10.16	2.75	1.22	4.80	5.52	32.00	7.00	0.00	0.00	85.31	312.09
WRENCH	29.25	10.31	2.05		13.41	7.70	2.55	1.35	5.10	6.00	13.00	2.00	0.00	0.00	77.72	307.04
BROWN	27.65	8.01	2.78		19.01	6.26	2.86	0.77	5.10	5.10	20.00	3.00	0.00	0.00	77.54	283.77
HILLS	26.75	9.21	2.05		12.92	7.38	2.36	2.03	5.56	3.16	22.00	4.00	0.00	0.00	71.42	333.33
CASSIDY	30.50	10.76	3.06		9.90	6.24	2.55	1.10	6.60	4.65	19.00	4.00	0.00	0.00	75.36	309.03
MAXIMUM	41.00	12.70	3.06		20.20	11.42	3.00	2.03	7.20	7.19	40.00	10.00	0.00	0.00	93.66	366.84
MINIMUM	26.75	8.01	1.16		9.90	6.24	1.40	0.62	2.70	3.16	10.00	2.00	0.00	0.00	71.42	233.00
MEAN	30.68	10.70	1.92		14.94	8.28	2.41	1.24	5.01	5.02	22.99	5.19	0.00	0.00	80.20	301.95
STD	3.81	1.29	0.50		2.60	1.43	0.41	0.44	1.15	1.00	8.04	2.34	0.00	0.00	5.56	36.52
STD/MEAN, %	12.42%	12.08%	26.01%		17.39%	17.26%	17.23%	35.27%	22.97%	19.94%	34.97%	45.06%	∞	∞	6.93%	12.09%



yi within 1 75.9%
 yi within 2 94.9%
 yi within 3 100.0%
 yi >3 0.0%

PART ID = C2 two-piece

Yi VALUES

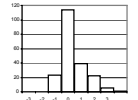
	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
VIERA	2.71	-0.25	0.01		0.68	1.29	0.27	1.36	0.22	-1.12	1.00	-0.08	0.00	0.00	2.42	1.78	0.69	1.06
TSCHIRHART	0.08	-0.16	-0.25		-0.44	-0.23	-0.50	-1.24	-0.10	-0.12	0.25	1.20	0.00	0.00	-0.44	-1.14	-0.20	0.57
KOBRINETZ	-0.31	0.74	0.23		-0.19	-0.04	1.43	0.90	-0.57	-0.97	-0.25	-0.51	0.00	0.00	-0.23	1.01	0.08	0.66
GARCIA, P	1.13	-0.54	0.01		2.02	-0.79	0.95	0.93	-2.01	-0.07	0.50	1.20	0.00	0.00	1.11	1.05	0.37	1.00
AVIS	-0.77	-0.96	-0.61		0.38	-0.32	-1.27	-0.74	0.60	0.98	-0.76	-0.55	0.00	0.00	-0.56	-1.23	-0.39	0.66
CLAPPERTY	-0.77	1.45	-1.21		0.34	0.45	-2.43	-1.42	-1.51	-0.40	-1.12	-0.08	0.00	0.00	-0.70	-1.89	-0.62	1.01
HOLLAND	-0.31	-0.51	0.50		-0.70	0.13	0.23	1.04	0.42	-0.22	0.62	-0.08	0.00	0.00	-0.43	0.80	0.10	0.50
LOVE	1.13	0.54	-1.53		0.79	-0.34	0.23	-0.55	0.20	-0.52	2.11	2.05	0.00	0.00	0.97	-0.46	0.31	0.99
RANSFORD	-0.59	1.55	-0.75		-0.53	0.21	-0.67	-0.26	1.90	2.17	0.37	0.77	0.00	0.00	0.41	-0.42	0.28	0.94
DAVEY	-0.55	0.71	-0.11		-0.62	2.20	-0.74	-0.60	-0.97	0.92	-1.62	-1.36	0.00	0.00	-0.08	-0.47	-0.22	0.95
YANCHAR	0.48	0.93	-0.83		0.00	1.32	0.83	-0.05	-0.18	0.50	1.12	0.77	0.00	0.00	0.92	0.28	0.41	0.58
WRENCH	-0.37	-0.30	0.25		-0.59	-0.41	0.35	0.24	0.08	0.98	-1.24	-1.36	0.00	0.00	-0.45	0.14	-0.18	0.60
BROWN	-0.79	-2.08	1.71		1.57	-1.41	1.09	-1.08	0.08	0.08	-0.37	-0.94	0.00	0.00	-0.48	-0.50	-0.21	1.05
HILLS	-1.03	-1.15	0.25		-0.78	-0.63	-0.11	1.79	0.48	-1.86	-0.12	-0.51	0.00	0.00	-1.58	0.86	-0.29	0.95
CASSIDY	-0.05	0.05	2.27		-1.94	-1.43	0.35	-0.33	1.38	-0.37	-0.50	-0.51	0.00	0.00	-0.87	0.19	-0.12	1.01
Yi MAXIMUM	2.71	-2.08	2.27		2.02	2.20	-2.43	1.79	-2.01	2.17	2.11	2.05	0.00	0.00	2.42	-1.89	0.69	1.06
Yi MINIMUM	-0.05	0.05	0.01		0.00	-0.04	-0.11	-0.05	0.08	-0.07	-0.12	-0.08	0.00	0.00	-0.08	0.14	0.08	0.50
Yi MEAN	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Yi STD	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00		
Ratings MEAN	30.68	10.70	1.92		14.94	8.28	2.41	1.24	5.01	5.02	22.99	5.19	0.00	0.00	80.20	301.95		
Ratings STD	3.81	1.29	0.50		2.60	1.43	0.41	0.44	1.15	1.00	8.04	2.34	0.00	0.00	5.56	36.52		

Heavy Duty Diesel Rating Workshop

PART ID = C3 keystone

RATED VALUES

	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3		Upper Skirt	Under-crown	TGF	2GF	TLHC	TLFC	UWPD	WPD
VIERA	36.25	28.51	0.51		8.24	22.83	1.20		0.33	1.35	25.00	27.00	0.00	0.00	99.22	214.46
TSCHIRHART	35.00	30.23	1.16		7.70	25.78	2.30		0.20	1.90	32.00	18.00	0.00	0.00	104.27	265.83
KOBRINETZ	33.00	35.68	1.67		12.82	20.72	0.77		0.34	1.40	29.00	41.00	0.00	0.00	106.40	242.56
GARCIA, P	38.75	29.51	0.68		16.53	22.80	1.21		0.24	1.71	22.00	20.00	0.00	0.00	111.43	235.17
HOLLAND	30.00	37.52	0.92		10.52	21.70	1.34		0.35	1.65	22.00	10.00	0.00	0.00	103.99	240.49
AVIS	34.75	37.30	0.78		13.87	21.63	1.36		0.25	0.84	27.40	40.80	0.00	0.00	110.78	226.38
CLAPPERTY	32.00	40.39	0.48		12.11	18.76	0.71		0.27	0.79	22.00	40.00	0.00	0.00	105.51	198.51
GREENLAND	39.00	39.55	1.07		8.20	27.63	1.71		0.38	1.40	37.00	55.00	0.00	0.00	118.93	269.78
LOVE	46.25	22.70	0.85		9.25	21.55	1.38		0.55	1.35	45.00	18.00	0.00	0.00	103.88	244.48
SMITH	40.00	41.74	1.73		7.75	33.48	2.56		1.15	1.30	19.00	45.00	0.00	0.00	129.71	354.59
CAMPBELL	34.50	38.45	0.86		14.00	21.48	1.66		0.23	0.91	23.00	59.00	0.00	0.00	112.09	237.61
DAVEY	40.63	44.62	1.00		15.34	29.07	1.07		0.31	1.80	21.00	49.00	0.00	0.00	133.84	275.54
RANSFORD	45.63	24.24	0.98		7.39	22.28	3.12		0.32	0.94	33.00	25.00	0.00	0.00	104.90	271.78
WRENCH	36.00	21.70	1.28		14.00	24.55	1.87		0.42	1.60	16.00	19.00	0.00	0.00	101.42	256.85
PLAIZIER	33.25	45.78	0.87		6.33	22.15	1.15		0.25	1.40	19.00	50.00	0.00	0.00	111.18	238.03
RODRIGUEZ	32.75	22.14	0.86		9.71	21.15	1.09		0.33	1.88	17.00	4.00	0.00	0.00	89.91	216.05
BROWN	43.00	24.10	0.66		7.64	20.74	1.48		0.15	2.00	28.00	12.00	0.00	0.00	99.77	230.03
MAXIMUM	46.25	45.78	1.73		16.53	33.48	3.12		1.15	2.00	45.00	59.00	0.00	0.00	133.84	354.59
MINIMUM	30.00	21.70	0.48		6.33	18.76	0.71		0.15	0.79	16.00	4.00	0.00	0.00	89.91	198.51
MEAN	37.10	33.19	0.96		10.67	23.43	1.53		0.36	1.42	25.73	31.34	0.00	0.00	108.66	248.12
STD	4.77	8.27	0.35		3.22	3.68	0.63		0.22	0.38	7.68	17.14	0.00	0.00	10.83	34.83
STD/MEAN, %	12.86%	24.93%	36.07%		30.22%	15.69%	41.55%		62.82%	26.85%	29.83%	54.70%	∞	∞	9.97%	14.04%



yi within 1 75.0%
 yi within 2 97.1%
 yi within 3 99.5%
 yi >3 0.5%

PART ID = C3 keystone

Yi VALUES

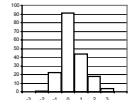
	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3		Upper Skirt	Under-crown	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD	
VIERA	-0.18	-0.57	-1.30		-0.75	-0.16	-0.52		-0.12	-0.20	-0.10	-0.25	0.00	0.00	-0.87	-0.97	-0.43	0.41	
TSCHIRHART	-0.44	-0.36	0.57		-0.92	0.64	1.22		-0.70	1.24	0.82	-0.78	0.00	0.00	-0.41	0.51	0.10	0.73	
KOBRINETZ	-0.86	0.30	2.04		0.67	-0.74	-1.19		-0.07	-0.06	0.43	0.56	0.00	0.00	-0.21	-0.16	0.05	0.78	
GARCIA, P	0.35	-0.44	-0.81		1.82	-0.17	-0.50		-0.52	0.75	-0.49	-0.66	0.00	0.00	0.26	-0.37	-0.06	0.69	
HOLLAND	-1.49	0.52	-0.11		-0.05	-0.47	-0.30		-0.03	0.59	-0.49	-1.24	0.00	0.00	-0.43	-0.22	-0.27	0.57	
AVIS	-0.49	0.50	-0.53		0.99	-0.49	-0.26		-0.48	-1.53	0.22	0.55	0.00	0.00	0.20	-0.62	-0.14	0.63	
CLAPPERTY	-1.07	0.87	-1.39		0.45	-1.27	-1.29		-0.39	-1.66	-0.49	0.51	0.00	0.00	-0.29	-1.42	-0.53	0.83	
GREENLAND	0.40	0.77	0.30		-0.77	1.14	0.29		0.08	-0.06	1.47	1.38	0.00	0.00	0.95	0.62	0.47	0.63	
LOVE	1.92	-1.27	-0.32		-0.44	-0.51	-0.23		0.86	-0.20	2.51	-0.78	0.00	0.00	-0.44	-0.10	0.07	1.03	
SMITH	0.61	1.03	2.21		-0.91	2.73	1.63		3.54	-0.33	-0.88	0.80	0.00	0.00	1.94	3.06	1.10	1.45	
CAMPBELL	-0.55	0.64	-0.29		1.03	-0.53	0.21		-0.57	-1.35	-0.36	1.61	0.00	0.00	0.32	-0.30	-0.01	0.75	
DAVEY	0.74	1.38	0.11		1.45	1.53	-0.72		-0.21	0.98	-0.62	1.03	0.00	0.00	2.32	0.79	0.63	0.89	
RANSFORD	1.79	-1.08	0.05		-1.02	-0.31	2.51		-0.16	-1.27	0.95	-0.37	0.00	0.00	-0.35	0.68	0.10	1.07	
WRENCH	-0.23	-1.39	0.92		1.03	0.30	0.54		0.28	0.46	-1.27	-0.72	0.00	0.00	-0.67	0.25	-0.04	0.74	
PLAIZIER	-0.81	1.52	-0.27		-1.35	-0.35	-0.60		-0.48	-0.06	-0.88	1.09	0.00	0.00	0.23	-0.29	-0.16	0.75	
RODRIGUEZ	-0.91	-1.34	-0.29		-0.30	-0.62	-0.69		-0.12	1.19	-1.14	-1.59	0.00	0.00	-1.73	-0.92	-0.60	0.77	
BROWN	1.24	-1.10	-0.87		-0.94	-0.73	-0.08		-0.92	1.50	0.30	-1.13	0.00	0.00	-0.82	-0.52	-0.29	0.84	
Yi MAXIMUM	1.92	1.52	2.21		1.82	2.73	2.51		3.54	-1.66	2.51	1.61	0.00	0.00	2.32	3.06	1.10	1.45	
Yi MINIMUM	-0.18	0.30	0.05		-0.05	-0.16	-0.08		-0.03	-0.06	-0.10	-0.25	0.00	0.00	0.20	-0.10	-0.01	0.41	
Yi MEAN	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Yi STD	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00			
Ratings MEAN	37.10	33.19	0.96		10.67	23.43	1.53		0.36	1.42	25.73	31.34	0.00	0.00	108.66	248.12			
Ratings STD	4.77	8.27	0.35		3.22	3.68	0.63		0.22	0.38	7.68	17.14	0.00	0.00	10.83	34.83			

Heavy Duty Diesel Rating Workshop

PART ID = C4 keystone

RATED VALUES

	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3		Upper Skirt	Under-crown	TGF	2GF	TLHC	TLFC	UWPD	WPD
VIERA	31.00	19.46	0.70		4.23	46.86	1.67		0.43	0.85	12.00	8.00	0.00	0.00	105.20	224.53
TSCHIRHART	27.50	14.90	1.99		3.30	66.50	2.67		0.55	1.42	19.00	9.00	0.00	0.00	118.83	305.80
KOBRINETZ	26.00	15.96	2.25		6.04	47.28	0.98		0.51	1.15	10.00	4.00	0.00	0.00	100.17	245.51
CLAPPERTY	26.25	16.83	0.93		8.83	30.81	1.40		0.31	0.67	8.00	4.00	0.00	0.00	86.03	191.41
GARCIA, P	25.75	19.44	1.13		3.90	46.25	2.02		0.51	1.30	10.00	8.00	0.00	0.00	100.30	248.19
HOLLAND	26.50	14.79	0.48		4.40	47.04	2.47		0.45	1.44	12.00	4.00	0.00	0.00	97.57	238.18
AVIS	26.00	17.89	0.81		4.18	41.50	2.19		0.27	0.68	6.40	4.00	0.00	0.00	93.52	213.62
GREENLAND	29.50	17.17	1.14		4.02	59.59	2.22		0.47	1.35	20.00	23.00	0.00	0.00	115.46	267.99
LOVE	30.00	18.10	0.66		4.70	55.81	1.82		0.72	1.10	25.00	15.00	0.00	0.00	112.91	252.66
RANSFORD	28.64	18.20	1.39		1.82	32.89	2.35		0.15	1.89	15.00	8.00	0.00	0.00	87.33	243.77
DAVEY	29.50	15.89	1.04		4.46	58.01	3.34		0.27	0.66	27.00	10.00	0.00	0.00	113.17	266.76
CAMPBELL	27.50	16.77	1.20		6.00	35.83	2.54		0.38	0.76	19.00	6.00	0.00	0.00	90.98	235.94
FOECKING	26.50	16.95	1.14		5.22	54.96	2.61		0.42	2.20	6.00	4.00	0.00	0.00	109.98	283.93
WRENCH	28.25	17.10	1.36		5.40	62.50	3.13		0.64	1.55	12.00	5.00	0.00	0.00	119.93	311.18
RODRIGUEZ	25.75	18.03	1.10		4.22	33.94	2.30		0.34	1.32	5.00	4.00	0.00	0.00	87.00	232.23
MAXIMUM	31.00	19.46	2.25		8.83	66.50	3.34		0.72	2.20	27.00	23.00	0.00	0.00	119.93	311.18
MINIMUM	25.75	14.79	0.48		1.82	30.81	0.98		0.15	0.66	5.00	4.00	0.00	0.00	86.03	191.41
MEAN	27.64	17.17	1.15		4.71	47.98	2.25		0.43	1.22	13.76	7.73	0.00	0.00	102.56	250.78
STD	1.74	1.41	0.47		1.55	11.38	0.62		0.15	0.46	6.86	5.26	0.00	0.00	11.99	32.44
STD/MEAN, %	6.28%	8.21%	40.71%		32.82%	23.72%	27.45%		34.88%	37.27%	49.86%	67.98%	∞	∞	11.69%	12.93%



yi within 1 75.0%
 yi within 2 97.2%
 yi within 3 100.0%
 yi >3 0.0%

PART ID = C4 keystone

Yi VALUES

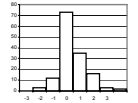
	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3		Upper Skirt	Under-crown	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
VIERA	1.93	1.63	-0.97		-0.31	-0.10	-0.94		0.01	-0.82	-0.26	0.05	0.00	0.00	0.22	-0.81	-0.03	0.87
TSCHIRHART	-0.08	-1.61	1.78		-0.91	1.63	0.69		0.82	0.43	0.76	0.24	0.00	0.00	1.36	1.70	0.49	0.99
KOBRINETZ	-0.95	-0.86	2.33		0.86	-0.06	-2.05		0.55	-0.16	-0.55	-0.71	0.00	0.00	-0.20	-0.16	-0.14	1.00
CLAPPERTY	-0.80	-0.24	-0.48		2.66	-1.51	-1.37		-0.79	-1.21	-0.84	-0.71	0.00	0.00	-1.38	-1.83	-0.61	1.09
GARCIA, P	-1.09	1.61	-0.05		-0.53	-0.15	-0.37		0.55	0.17	-0.55	0.05	0.00	0.00	-0.19	-0.08	-0.04	0.61
HOLLAND	-0.66	-1.68	-1.43		-0.20	-0.08	0.36		0.11	0.48	-0.26	-0.71	0.00	0.00	-0.42	-0.39	-0.35	0.62
AVIS	-0.95	0.51	-0.73		-0.35	-0.57	-0.09		-1.06	-1.19	-1.07	-0.71	0.00	0.00	-0.75	-1.15	-0.58	0.52
GREENLAND	1.07	0.00	-0.04		-0.45	1.02	-0.04		0.28	0.28	0.91	2.90	0.00	0.00	1.08	0.53	0.54	0.84
LOVE	1.36	0.66	-1.05		-0.01	0.69	-0.69		1.96	-0.27	1.64	1.38	0.00	0.00	0.86	0.06	0.47	0.90
RANSFORD	0.57	0.73	0.50		-1.87	-1.33	0.17		-1.86	1.47	0.18	0.05	0.00	0.00	-1.27	-0.22	-0.21	1.00
DAVEY	1.07	-0.90	-0.24		-0.16	0.88	1.77		-1.06	-1.23	1.93	0.43	0.00	0.00	0.88	0.49	0.28	0.98
CAMPBELL	-0.08	-0.28	0.10		0.83	-1.07	0.47		-0.32	-1.01	0.76	-0.33	0.00	0.00	-0.97	-0.46	-0.17	0.60
FOECKING	-0.66	-0.15	-0.04		0.32	0.61	0.58		-0.03	2.14	-1.13	-0.71	0.00	0.00	0.62	1.02	0.18	0.81
WRENCH	0.35	-0.05	0.44		0.44	1.28	1.43		1.42	0.72	-0.26	-0.52	0.00	0.00	1.45	1.86	0.61	0.75
RODRIGUEZ	-1.09	0.61	-0.11		-0.32	-1.23	0.09		-0.59	0.21	-1.28	-0.71	0.00	0.00	-1.30	-0.57	-0.45	0.62
Yi MAXIMUM	1.93	-1.68	2.33		2.66	1.63	-2.05		1.96	2.14	1.93	2.90	0.00	0.00	1.45	1.86	0.61	1.09
Yi MINIMUM	-0.08	0.00	-0.04		-0.01	-0.06	-0.04		0.01	-0.16	0.18	0.05	0.00	0.00	-0.19	0.06	-0.03	0.52
Yi MEAN	0.00	0.00	0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Yi STD	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00		
Ratings MEAN	27.64	17.17	1.15		4.71	47.98	2.25		0.43	1.22	13.76	7.73	0.00	0.00	102.56	250.78		
Ratings STD	1.74	1.41	0.47		1.55	11.38	0.62		0.15	0.46	6.86	5.26	0.00	0.00	11.99	32.44		

Heavy Duty Diesel Rating Workshop

PART ID = C5 square

RATED VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4	TGF	UWPD	WPD
BARRERA	41.71	13.27	0.18	0.05	21.06	2.08	1.08	36.00	79.43	337.32
TSCHIRHART	28.92	15.42	0.10	0.10	17.40	11.75	1.70	41.00	75.39	549.02
VIERA	34.36	15.42	0.26	0.06	19.68	2.05	1.44	30.00	73.27	362.14
KOBRINETZ	34.52	14.64	0.20	0.20	19.46	2.00	0.80	33.00	71.82	338.03
HOLLAND	33.46	14.08	0.20	0.10	17.72	2.00	0.82	32.00	68.39	318.99
CLAPPERTY	27.51	13.56	0.38	0.17	17.19	1.13	0.46	32.00	60.40	287.18
GARCIA, P	32.32	12.60	0.31	0.12	22.30	1.62	0.84	26.00	70.11	317.42
DAVEY	43.45	6.57	0.30	0.07	17.10	1.59	0.93	45.00	70.01	248.75
GREENLAND	37.13	11.18	0.30	0.30	20.50	1.82	1.98	41.00	73.21	357.71
CAPRONI	34.73	6.44	0.60	0.00	14.30	2.22	4.13	22.00	62.42	359.13
LOVE	37.50	16.60	0.30	0.20	22.15	1.80	0.90	42.00	79.45	373.03
WRENCH	38.80	12.00	1.00	0.00	19.20	2.50	1.50	33.00	75.00	363.50
SMITH	37.45	9.03	0.66	0.10	22.72	2.00	1.50	26.00	73.46	329.87
CAMPBELL	35.00	12.64	0.65	0.06	21.62	2.00	1.18	34.00	73.15	345.32
RANSFORD	31.90	11.88	0.59	0.13	19.90	2.03	0.84	28.00	67.27	320.10
WALKER	43.80	12.15	0.50	0.10	18.60	2.20	1.50	36.00	78.85	351.40
RODRIGUEZ	32.17	14.33	0.22	0.10	19.49	1.34	0.75	31.00	68.40	311.44
PLAIZIER	31.48	11.62	1.00	0.00	16.55	1.79	1.18	30.00	63.62	317.71
MAXIMUM	43.80	16.60	1.00	0.30	22.72	11.75	4.13	45.00	79.45	549.02
MINIMUM	27.51	6.44	0.10	0.00	14.30	1.13	0.46	22.00	60.40	248.75
MEAN	35.35	12.41	0.43	0.10	19.27	2.44	1.31	33.22	71.31	343.78
STD	4.58	2.80	0.27	0.08	2.27	2.35	0.81	6.13	5.58	59.55
STD/MEAN, %	12.95%	22.54%	62.43%	75.18%	11.79%	96.14%	61.69%	18.46%	7.82%	17.32%



yi within 1 75.0%
 yi within 2 94.4%
 yi within 3 98.6%
 yi >3 1.4%

PART ID = C5 square

Yi VALUES

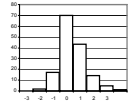
	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4	TGF	UWPD	WPD	MEAN	STD
BARRERA	1.39	0.31	-0.93	-0.69	0.79	-0.15	-0.28	0.45	1.46	-0.11	0.22	0.81
TSCHIRHART	-1.40	1.07	-1.23	-0.04	-0.83	3.97	0.49	1.27	0.73	3.45	0.75	1.82
VIERA	-0.22	1.07	-0.63	-0.56	0.18	-0.17	0.17	-0.53	0.35	0.31	0.00	0.53
KOBRINETZ	-0.18	0.80	-0.86	1.24	0.08	-0.19	-0.63	-0.04	0.09	-0.10	0.02	0.61
HOLLAND	-0.41	0.60	-0.86	-0.04	-0.68	-0.19	-0.60	-0.20	-0.52	-0.42	-0.33	0.41
CLAPPERTY	-1.71	0.41	-0.19	0.86	-0.92	-0.56	-1.05	-0.20	-1.96	-0.95	-0.63	0.88
GARCIA, P	-0.66	0.07	-0.45	0.21	1.33	-0.35	-0.58	-1.18	-0.22	-0.44	-0.23	0.67
DAVEY	1.77	-2.09	-0.49	-0.43	-0.96	-0.36	-0.47	1.92	-0.23	-1.60	-0.29	1.27
GREENLAND	0.39	-0.44	-0.49	2.53	0.54	-0.26	0.83	1.27	0.34	0.23	0.49	0.91
CAPRONI	-0.13	-2.13	0.63	-1.33	-2.19	-0.09	3.50	-1.83	-1.59	0.26	-0.49	1.74
LOVE	0.47	1.50	-0.49	1.24	1.27	-0.27	-0.50	1.43	1.46	0.49	0.66	0.83
WRENCH	0.75	-0.15	2.12	-1.33	-0.03	0.03	0.24	-0.04	0.66	0.33	0.26	0.87
SMITH	0.46	-1.21	0.85	-0.04	1.52	-0.19	0.24	-1.18	0.38	-0.23	0.06	0.84
CAMPBELL	-0.08	0.08	0.82	-0.56	1.03	-0.19	-0.16	0.13	0.33	0.03	0.14	0.48
RANSFORD	-0.75	-0.19	0.59	0.34	0.28	-0.17	-0.58	-0.85	-0.73	-0.40	-0.25	0.51
WALKER	1.85	-0.09	0.26	-0.04	-0.30	-0.10	0.24	0.45	1.35	0.13	0.37	0.69
RODRIGUEZ	-0.69	0.69	-0.78	-0.04	0.09	-0.47	-0.69	-0.36	-0.52	-0.54	-0.33	0.46
PLAIZIER	-0.84	-0.28	2.12	-1.33	-1.20	-0.28	-0.16	-0.53	-1.38	-0.44	-0.43	1.01
Yi MAXIMUM	1.85	-2.13	2.12	2.53	-2.19	3.97	3.50	1.92	-1.96	3.45	0.75	1.82
Yi MINIMUM	-0.08	0.07	-0.19	-0.04	-0.03	0.03	-0.16	-0.04	0.09	0.03	0.00	0.41
Yi MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Yi STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Ratings MEAN	35.35	12.41	0.43	0.10	19.27	2.44	1.31	33.22	71.31	343.78		
Ratings STD	4.58	2.80	0.27	0.08	2.27	2.35	0.81	6.13	5.58	59.55		

Heavy Duty Diesel Rating Workshop

PART ID = C6 square

RATED VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4	TGF	UWPD	WPD
BARRERA	65.17	8.16	0.15	0.17	23.04	0.30	0.30	66.00	97.29	261.06
CLAPPERTY	48.73	6.87	0.16	0.21	18.51	0.21	0.21	61.00	74.90	214.07
TSCHIRHART	55.00	7.62	0.20	0.20	25.95	0.20	0.20	54.00	89.37	254.03
VIERA	42.01	7.83	0.16	0.18	19.75	0.10	0.18	59.00	70.21	215.94
KOBRINETZ	56.46	7.66	0.14	0.20	20.76	0.30	0.40	61.00	85.92	244.62
DAVEY	63.99	7.94	0.26	0.24	20.79	0.32	0.94	60.00	94.48	281.36
GARCIA, P	56.88	7.93	0.16	0.12	25.68	0.12	0.24	59.00	91.13	250.86
HOLLAND	58.32	7.90	0.40	0.30	21.41	0.36	0.32	60.00	89.00	265.46
CAPRONI	69.70	5.77	0.12	0.10	16.69	0.30	0.50	71.00	93.18	220.52
CONTI	72.54	8.42	0.14	0.11	20.14	0.27	0.38	64.00	101.99	258.31
LOVE	64.60	8.70	0.40	0.30	22.85	0.40	0.60	65.00	97.85	295.58
GREENLAND	58.12	8.20	0.30	0.30	21.66	0.40	0.41	66.00	89.39	269.61
WRENCH	63.68	6.47	0.63	0.61	14.80	1.00	1.30	62.00	88.49	310.43
WALKER	66.60	8.80	0.20	0.20	19.26	0.40	0.80	64.00	96.26	279.01
RODRIGUEZ	49.88	8.31	0.12	0.10	21.44	0.10	0.12	56.00	80.07	225.42
RANSFORD	53.64	6.68	0.18	0.05	20.36	0.18	0.09	59.00	81.18	208.25
AHLWARDT	70.40	8.70	0.01	0.01	31.61	0.29	0.28	80.00	111.30	284.69
CASSIDY	66.77	6.00	0.30	0.45	19.80	0.45	0.50	61.00	94.27	264.57
YANCHAR	64.38	8.23	0.04	0.02	23.63	0.20	0.20	66.00	96.70	243.19
MAXIMUM	72.54	8.80	0.63	0.61	31.61	1.00	1.30	80.00	111.30	310.43
MINIMUM	42.01	5.77	0.01	0.01	14.80	0.10	0.09	54.00	70.21	208.25
MEAN	60.36	7.69	0.21	0.20	21.48	0.31	0.42	62.84	90.68	255.10
STD	8.13	0.91	0.14	0.15	3.65	0.20	0.31	5.75	9.59	28.92
STD/MEAN, %	13.47%	11.81%	67.30%	72.16%	17.01%	63.52%	73.66%	9.15%	10.57%	11.33%



yi within 1 74.3%
 yi within 2 94.7%
 yi within 3 99.3%
 yi >3 0.7%

PART ID = C6 square

Yi VALUES

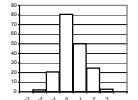
	Groove 1	Groove 2	Groove 3	Groove 4	Land 2	Land 3	Land 4	TGF	UWPD	WPD	MEAN	STD
BARRERA	0.59	0.51	-0.45	-0.23	0.43	-0.05	-0.38	0.55	0.69	0.21	0.19	0.43
CLAPPERTY	-1.43	-0.91	-0.38	0.04	-0.81	-0.51	-0.68	-0.32	-1.65	-1.42	-0.81	0.55
TSCHIRHART	-0.66	-0.08	-0.10	-0.03	1.22	-0.56	-0.71	-1.54	-0.14	-0.04	-0.26	0.70
VIERA	-2.26	0.15	-0.38	-0.16	-0.47	-1.07	-0.77	-0.67	-2.14	-1.35	-0.91	0.80
KOBRINETZ	-0.48	-0.04	-0.51	-0.03	-0.20	-0.05	-0.06	-0.32	-0.50	-0.36	-0.25	0.20
DAVEY	0.45	0.27	0.32	0.25	-0.19	0.05	1.69	-0.49	0.40	0.91	0.36	0.60
GARCIA, P	-0.43	0.26	-0.38	-0.57	1.15	-0.97	-0.58	-0.67	0.05	-0.15	-0.23	0.60
HOLLAND	-0.25	0.23	1.29	0.66	-0.02	0.25	-0.34	-0.49	-0.18	0.36	0.15	0.53
CAPRONI	1.15	-2.12	-0.65	-0.71	-1.31	-0.05	0.26	1.42	0.26	-1.20	-0.29	1.11
CONTI	1.50	0.79	-0.51	-0.64	-0.37	-0.21	-0.14	0.20	1.18	0.11	0.19	0.73
LOVE	0.52	1.11	1.29	0.66	0.37	0.45	0.59	0.38	0.75	1.40	0.75	0.38
GREENLAND	-0.28	0.56	0.60	0.66	0.05	0.45	-0.04	0.55	-0.14	0.50	0.29	0.35
WRENCH	0.41	-1.35	2.88	2.76	-1.83	3.50	2.86	-0.15	-0.23	1.91	1.08	1.94
WALKER	0.77	1.22	-0.10	-0.03	-0.61	0.45	1.24	0.20	0.58	0.83	0.46	0.59
RODRIGUEZ	-1.29	0.68	-0.65	-0.71	-0.01	-1.07	-0.97	-1.19	-1.11	-1.03	-0.73	0.62
RANSFORD	-0.83	-1.12	-0.24	-1.05	-0.31	-0.66	-1.07	-0.67	-0.99	-1.62	-0.85	0.41
AHLWARDT	1.23	1.11	-1.42	-1.32	2.77	-0.10	-0.45	2.99	2.15	1.02	0.80	1.58
CASSIDY	0.79	-1.86	0.60	1.68	-0.46	0.71	0.26	-0.32	0.37	0.33	0.21	0.94
YANCHAR	0.49	0.59	-1.21	-1.25	0.59	-0.56	-0.71	0.55	0.63	-0.41	-0.13	0.78
Yi MAXIMUM	-2.26	-2.12	2.88	2.76	2.77	3.50	2.86	2.99	2.15	1.91	1.08	1.94
Yi MINIMUM	-0.25	-0.04	-0.10	-0.03	-0.01	0.05	-0.04	-0.15	0.05	-0.04	-0.13	0.20
Yi MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Yi STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		
Ratings MEAN	60.36	7.69	0.21	0.20	21.48	0.31	0.42	62.84	90.68	255.10		
Ratings STD	8.13	0.91	0.14	0.15	3.65	0.20	0.31	5.75	9.59	28.92		

Heavy Duty Diesel Rating Workshop

PART ID = D1 two-piece

RATED VALUES

	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD
GARRETT	25.63	11.28	1.30		20.66	12.80	3.22	0.54	4.50	4.50	7.00	2.00	0.00	0.00	84.43	273.71
KOBRINETZ	30.10	9.82	1.75		20.05	10.64	3.40	0.83	3.90	3.00	16.00	4.00	0.00	0.00	83.49	299.83
CASTILLO	26.20	10.80	2.00		18.68	11.88	3.22	0.64	4.80	5.25	9.00	7.00	0.00	0.00	83.47	289.35
AVIS	25.00	11.12	1.45		22.53	11.60	3.11	0.62	6.60	7.20	8.10	3.30	0.00	0.00	89.23	279.29
GARCIA, P	33.75	9.97	1.83		22.92	9.01	2.84	0.98	5.40	2.10	22.00	8.00	0.00	0.00	88.80	306.01
VIERA	31.00	12.21	2.02		19.84	14.25	3.25	0.94	6.31	5.40	20.00	2.00	0.00	0.00	95.22	332.03
CAPRONI	27.27	6.76	1.80		14.60	6.25	2.10	0.50	4.50	4.50	6.00	2.00	0.00	0.00	68.28	222.92
MACH	44.75	11.75	2.73		20.95	2.69	2.36	1.08	3.60	4.96	22.00	1.00	0.00	0.00	94.87	326.45
SMITH	25.60	9.13	1.25		15.16	9.20	2.18	0.80	3.31	3.31	4.00	2.00	0.00	0.00	69.94	242.92
CAMPBELL	31.50	12.77	1.77		23.40	17.09	2.42	0.32	3.00	5.10	25.00	2.00	0.00	0.00	97.37	284.53
PLAIZIER	40.00	10.76	2.53		17.64	15.75	2.04	0.41	7.36	5.56	33.00	7.00	0.00	0.00	102.05	303.31
HOLLAND	27.50	9.97	2.48		17.69	10.83	3.16	1.08	4.95	4.50	18.00	3.00	0.00	0.00	82.15	319.58
FOECKING	27.78	11.37	2.00		20.65	14.93	3.64	0.92	3.75	3.75	7.00	2.00	0.00	0.00	88.79	328.74
SANCHEZ	41.00	11.71	2.15		18.52	13.70	2.56	1.09	6.90	6.90	17.00	3.00	0.00	0.00	104.53	346.70
MAXIMUM	44.75	12.77	2.73		23.40	17.09	3.64	1.09	7.36	7.20	33.00	8.00	0.00	0.00	104.53	346.70
MINIMUM	25.00	6.76	1.25		14.60	2.69	2.04	0.32	3.00	2.10	4.00	1.00	0.00	0.00	68.28	222.92
MEAN	31.22	10.67	1.93		19.52	11.47	2.82	0.77	4.92	4.72	15.29	3.45	0.00	0.00	88.04	296.81
STD	6.39	1.51	0.44		2.67	3.85	0.53	0.26	1.40	1.40	8.65	2.24	0.00	0.00	10.61	34.74
STD/MEAN, %	20.48%	14.11%	22.88%		13.66%	33.60%	18.88%	34.07%	28.55%	29.67%	56.58%	64.94%	∞	∞	12.05%	11.71%



yi within 1 72.0%
 yi within 2 97.3%
 yi within 3 100.0%
 yi >3 0.0%

PART ID = D1 two-piece

Yi VALUES

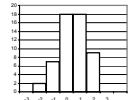
	Groove 1	Groove 2	Groove 3		Land 1	Land 2	Land 3	Land 4	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
GARRETT	-0.87	0.40	-1.43		0.43	0.34	0.75	-0.87	-0.30	-0.15	-0.96	-0.65	0.00	0.00	-0.34	-0.66	-0.29	0.62
KOBRINETZ	-0.18	-0.57	-0.41		0.20	-0.22	1.09	0.24	-0.73	-1.23	0.08	0.25	0.00	0.00	-0.43	0.09	-0.12	0.53
CASTILLO	-0.79	0.08	0.15		-0.32	0.11	0.75	-0.49	-0.09	0.38	-0.73	1.58	0.00	0.00	-0.43	-0.21	0.00	0.60
AVIS	-0.97	0.30	-1.09		1.13	0.03	0.54	-0.56	1.20	1.78	-0.83	-0.07	0.00	0.00	0.11	-0.50	0.07	0.83
GARCIA, P	0.40	-0.47	-0.23		1.27	-0.64	0.03	0.81	0.34	-1.87	0.78	2.03	0.00	0.00	0.07	0.26	0.19	0.89
VIERA	-0.03	1.02	0.20		0.12	0.72	0.80	0.66	0.99	0.49	0.54	-0.65	0.00	0.00	0.68	1.01	0.44	0.48
CAPRONI	-0.62	-2.60	-0.30		-1.84	-1.35	-1.35	-1.02	-0.30	-0.15	-1.07	-0.65	0.00	0.00	-1.86	-2.13	-1.02	0.82
MACH	2.12	0.72	1.80		0.54	-2.28	-0.87	1.20	-0.94	0.17	0.78	-1.09	0.00	0.00	0.64	0.85	0.24	1.16
SMITH	-0.88	-1.02	-1.54		-1.63	-0.59	-1.20	0.12	-1.15	-1.01	-1.31	-0.65	0.00	0.00	-1.71	-1.55	-0.94	0.61
CAMPBELL	0.04	1.39	-0.37		1.45	1.46	-0.75	-1.71	-1.37	0.27	1.12	-0.65	0.00	0.00	0.88	-0.35	0.09	1.01
PLAIZIER	1.37	0.06	1.35		-0.71	1.11	-1.47	-1.37	1.74	0.60	2.05	1.58	0.00	0.00	1.32	0.19	0.52	1.11
HOLLAND	-0.58	-0.47	1.24		-0.69	-0.17	0.64	1.18	0.02	-0.15	0.31	-0.20	0.00	0.00	-0.56	0.66	0.08	0.61
FOECKING	-0.54	0.46	0.15		0.42	0.90	1.54	0.58	-0.83	-0.69	-0.96	-0.65	0.00	0.00	0.07	0.92	0.09	0.73
SANCHEZ	1.53	0.69	0.49		-0.38	0.58	-0.49	1.23	1.41	1.56	0.20	-0.20	0.00	0.00	1.55	1.44	0.64	0.76
Yi MAXIMUM	2.12	-2.60	1.80		-1.84	-2.28	1.54	-1.71	1.74	-1.87	2.05	2.03	0.00	0.00	-1.86	-2.13	-1.02	1.16
Yi MINIMUM	-0.03	0.06	0.15		0.12	0.03	0.03	0.12	0.02	-0.15	0.08	-0.07	0.00	0.00	0.07	0.09	0.00	0.48
Yi MEAN	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yi STD	1.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00
Ratings MEAN	31.22	10.67	1.93		19.52	11.47	2.82	0.77	4.92	4.72	15.29	3.45	0.00	0.00	88.04	296.81		
Ratings STD	6.39	1.51	0.44		2.67	3.85	0.53	0.26	1.40	1.40	8.65	2.24	0.00	0.00	10.61	34.74		

Heavy Duty Diesel Rating Workshop

PART ID = M11 Sludge

RATED VALUES

	Rocker Cover A	Oil Pan A	Rocker Cover B	Oil Pan B												UWPD	WPD
GARRETT	8.48	8.09	7.86	8.08												0.00	0.00
KOBRINETZ	8.48	8.55	8.72	8.92												0.00	0.00
LOPEZ	8.71	8.85	8.67	9.08												0.00	0.00
BARRERA	8.41	8.55	8.59	8.67												0.00	0.00
AVIS	8.47	8.45	7.55	8.34												0.00	0.00
RODRIGUEZ	8.23	7.91	7.92	8.93												0.00	0.00
TSCHIRHART	8.39	8.35	7.70	7.80												0.00	0.00
VIERA	8.65	8.60	8.21	8.27												0.00	0.00
CLAPPERTY	8.77	8.46	8.71	8.96												0.00	0.00
FOECKING	8.75	8.79	8.35	9.11												0.00	0.00
MAY	8.47	8.79	8.95	9.09												0.00	0.00
HOLLAND	8.46	8.53	8.71	8.60												0.00	0.00
YANCHAR	8.32	8.63	8.14	8.61												0.00	0.00
SANCHEZ	8.90	9.10														0.00	0.00
MAXIMUM	8.90	9.10	8.95	9.11												0.00	0.00
MINIMUM	8.23	7.91	7.55	7.80												0.00	0.00
MEAN	8.54	8.55	8.31	8.65												0.00	0.00
STD	0.19	0.30	0.45	0.42												0.00	0.00
STD/MEAN, %	2.24%	3.55%	5.44%	4.87%												∞	∞



yi within 1 66.7%
 yi within 2 96.3%
 yi within 3 100.0%
 yi >3 0.0%

PART ID = M11 Sludge

Yi VALUES

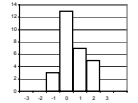
	Rocker Cover A	Oil Pan A	Rocker Cover B	Oil Pan B												UWPD	WPD	MEAN	STD
GARRETT	-0.29	-1.50	-1.00	-1.35												0.00	0.00	-0.69	0.68
KOBRINETZ	-0.29	0.01	0.90	0.64												0.00	0.00	0.21	0.45
LOPEZ	0.92	1.00	0.79	1.02												0.00	0.00	0.62	0.49
BARRERA	-0.65	0.01	0.61	0.05												0.00	0.00	0.00	0.40
AVIS	-0.34	-0.32	-1.69	-0.74												0.00	0.00	-0.51	0.64
RODRIGUEZ	-1.60	-2.10	-0.87	0.66												0.00	0.00	-0.65	1.06
TSCHIRHART	-0.76	-0.65	-1.36	-2.02												0.00	0.00	-0.80	0.79
VIERA	0.60	0.18	-0.23	-0.90												0.00	0.00	-0.06	0.50
CLAPPERTY	1.23	-0.28	0.88	0.73												0.00	0.00	0.43	0.60
FOECKING	1.13	0.80	0.08	1.09												0.00	0.00	0.52	0.55
MAY	-0.34	0.80	1.41	1.04												0.00	0.00	0.49	0.69
HOLLAND	-0.39	-0.05	0.88	-0.12												0.00	0.00	0.05	0.43
YANCHAR	-1.13	0.28	-0.38	-0.10												0.00	0.00	-0.22	0.49
SANCHEZ	1.91	1.82														0.00	0.00	0.93	1.08
Yi MAXIMUM	1.91	-2.10	-1.69	-2.02												0.00	0.00	0.93	1.08
Yi MINIMUM	-0.29	0.01	0.08	0.05												0.00	0.00	0.00	0.40
Yi MEAN	0.00	0.00	0.00	0.00												0.00	0.00		
Yi STD	1.00	1.00	1.00	1.00												0.00	0.00		
Ratings MEAN	8.54	8.55	8.31	8.65												0.00	0.00		
Ratings STD	0.19	0.30	0.45	0.42												0.00	0.00		

Heavy Duty Diesel Rating Workshop

PART ID = 6V92

RATED VALUES

	Scuffing Thrust	Scuffing Anti-thrust	Scuffing Total	Fire Ring	2nd Ring	3rd Ring	Average 2nd & 3rd												
BARRERA	7.70	15.00	19.20	0.079	0.100	0.123	0.112											42.24	447.11
PIGGOTT	4.25	13.17	17.42	0.098	0.102	0.107	0.104											35.15	398.92
VIERA	3.17	14.83	18.00	0.080	0.090	0.110	0.100											36.30	413.25
CAMPBELL	3.42	14.00	17.42	0.094	0.089	0.097	0.093											35.12	399.48
MAXIMUM	7.70	15.00	19.20	0.098	0.102	0.123	0.112											42.24	447.11
MINIMUM	3.17	13.17	17.42	0.079	0.089	0.097	0.093											35.12	398.92
MEAN	4.64	14.25	18.01	0.088	0.095	0.109	0.102											37.20	414.69
STD	2.09	0.84	0.84	0.010	0.007	0.011	0.008											3.40	22.61
STD/MEAN, %	45.20%	5.91%	4.66%	10.94%	7.01%	9.80%	7.77%											9.14%	5.45%



yi within 1 71.4%
 yi within 2 100.0%
 yi within 3 100.0%
 yi >3 0.0%

PART ID = 6V92

YI VALUES

	Scuffing Thrust	Scuffing Anti-thrust	Scuffing Total	Fire Ring	2nd Ring	3rd Ring	Average 2nd & 3rd												MEAN	STD		
BARRERA	1.46	0.89	1.42	-0.90	0.73	1.29	1.22												1.48	1.43	1.00	0.76
PIGGOTT	-0.18	-1.28	-0.70	1.07	0.99	-0.23	0.24												-0.60	-0.70	-0.16	0.79
VIERA	-0.70	0.69	-0.01	-0.80	-0.77	0.07	-0.29												-0.27	-0.06	-0.24	0.48
CAMPBELL	-0.58	-0.30	-0.70	0.64	-0.95	-1.13	-1.17												-0.61	-0.67	-0.61	0.54
Yi MAXIMUM	1.46	-1.28	1.42	1.07	0.99	1.29	1.22												1.48	1.43	1.00	0.79
Yi MINIMUM	-0.18	-0.30	-0.01	0.64	0.73	0.07	0.24												0.00	0.00	-0.16	0.48
Yi MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00												0.00	0.00		
Yi STD	1.00	1.00	1.00	1.00	1.00	1.00	1.00												1.00	1.00		
Ratings MEAN	4.64	14.25	18.01	0.09	0.10	0.11	0.10												37.20	414.69		
Ratings STD	2.09	0.84	0.84	0.01	0.01	0.01	0.01												3.40	22.61		

October 20, 2002

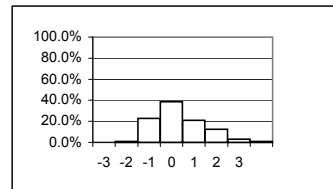
Heavy Duty Diesel Rating Workshop

Rater = AHLWARDT

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.69	-0.56	-1.09	-1.00		1.19	-0.29	-0.58				-1.66				0.05	0.05	-0.46	0.78
A1_two-piece																			
A2_two-piece																			
A3_keystone	0.30	-1.78	-0.97		-0.81	-1.41	-0.18		-1.22	-0.79		1.38	1.52	0.00	-0.24	-1.80	-1.32	-0.52	1.05
A4_keystone	1.70	-2.53	0.17		-0.84	0.78	-0.61		-1.13	-1.17		0.46	2.38	-0.39	0.09	0.36	-0.62	-0.10	1.24
A5_square	1.13	-0.19	-0.19	-0.62		-0.35	-0.64	-1.02				0.44				0.66	-0.41	-0.12	0.66
A6_square	0.22	0.62	-0.91	-0.80		1.46	-0.59	-0.82				-0.86				0.43	-0.50	-0.17	0.81
B1_two-piece																			
B2_two-piece																			
B3_keystone	0.22	-0.87	-0.47		1.00	1.08	1.41		-0.60	-1.45		0.20	-0.32	0.00	0.00	0.84	0.51	0.11	0.81
B4_keystone	0.90	-1.20	-1.03		0.66	-1.33	-0.30		-0.60	-1.07		1.57	0.68	0.00	0.00	-1.21	-1.03	-0.28	0.94
B5_square	0.20	0.09	-1.08	-1.11		1.64	3.56	-1.35				-0.06				0.86	0.81	0.36	1.48
B6_square	0.69	-1.20	0.28	-1.10		0.77	-1.63	-1.22				0.21				0.22	-1.14	-0.41	0.92
C1_two-piece																			
C2_two-piece																			
C3_keystone																			
C4_keystone																			
C5_square																			
C6_square	1.23	1.11	-1.42	-1.32		2.77	-0.10	-0.45				2.99				2.15	1.02	0.80	1.58
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square																			
Yi MAXIMUM	1.70	-2.53	-1.42	-1.32	1.00	2.77	3.56	-1.35	-1.22	-1.45		2.99	2.38	-0.39	-0.24	2.15	-1.32	0.80	1.58
Yi MINIMUM	0.20	0.09	0.17	-0.62	0.66	-0.35	-0.10	-0.45	-0.60	-0.79		-0.06	-0.32	0.00	0.00	0.05	0.05	-0.10	0.66
Yi MEAN	0.59	-0.65	-0.67	-0.99	0.00	0.66	0.06	-0.91	-0.89	-1.12		0.47	1.07	-0.10	-0.04	0.26	-0.26		
Yi STD	0.68	1.10	0.58	0.25	0.97	1.33	1.44	0.35	0.33	0.28		1.29	1.15	0.19	0.14	1.10	0.83		

bins	count	percent		
-3	0	0.0%		
-2	1	1.0%	-1 < yi ≤ 1	59.4%
-1	22	22.9%	-2 < yi ≤ 2	94.8%
0	37	38.5%	-3 < yi ≤ 3	99.0%
1	20	20.8%	>3	1.0%
2	12	12.5%		
3	3	3.1%		
3 lt yi	1	1.0%		
total	96	100.0%		



October 20, 2002

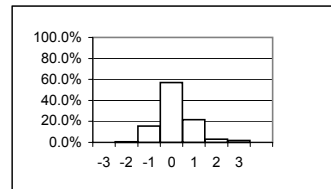
Heavy Duty Diesel Rating Workshop

Rater = AVIS

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.73	0.84	-0.45	-0.60		0.02	-0.09	-0.90				-0.09				-0.05	-0.05	-0.21	0.49
A1_two-piece																			
A2_two-piece																			
A3_keystone	-0.30	0.07	-1.09		-0.30	-0.60	-0.79		-0.95	-1.14		-0.28	-0.16	0.00	-0.24	-0.88	-1.31	-0.57	0.45
A4_keystone	-0.93	0.53	-1.28		0.34	-0.65	-1.00		-0.98	-1.94		0.26	-1.09	-0.39	-0.72	-0.95	-1.44	-0.73	0.70
A5_square																			
A6_square																			
B1_two-piece	-2.46	-0.45	-1.36		0.09	-1.30	-1.35	-0.85		2.36	-0.39	0.95	-0.59	-0.26	-0.36	-0.71	-1.61	-0.55	1.13
B2_two-piece	-0.76	0.45	-1.29		0.00	-0.06	-0.51	-0.99		0.91	0.45	-0.58	-0.29	-0.37	0.00	-0.07	-0.94	-0.27	0.60
B3_keystone	0.54	-0.91	-0.53		-0.31	-1.26	0.60		-0.48	0.15		2.88	0.04	0.00	0.00	-0.98	-0.07	-0.02	1.00
B4_keystone	0.65	2.01	-0.64		-0.42	-0.88	0.08		-0.57	-0.40		0.17	-0.27	0.00	0.00	-0.18	-0.40	-0.06	0.71
B5_square	-0.85	-0.09	-0.04	0.11		0.49	-0.73	-0.56				0.33				-0.74	-0.37	-0.25	0.47
B6_square	-1.50	1.07	-1.37	-0.49		0.67	-0.87	-1.08				-0.37				-1.19	-0.63	-0.57	0.85
C1_two-piece	-1.12	-0.27	-0.91		-0.83	-1.18	-1.20	-1.57		0.12	1.16	-1.12	0.03	-1.21	-0.52	-1.20	-2.11	-0.80	0.80
C2_two-piece	-0.77	-0.96	-0.61		0.38	-0.32	-1.27	-0.74		0.60	0.98	-0.76	-0.55	0.00	0.00	-0.56	-1.23	-0.39	0.66
C3_keystone	-0.49	0.50	-0.53		0.99	-0.49	-0.26		-0.48	-1.53		0.22	0.55	0.00	0.00	0.20	-0.62	-0.14	0.63
C4_keystone	-0.95	0.51	-0.73		-0.35	-0.57	-0.09		-1.06	-1.19		-1.07	-0.71	0.00	0.00	-0.75	-1.15	-0.58	0.52
C5_square																			
C6_square																			
D1_two-piece	-0.97	0.30	-1.09		1.13	0.03	0.54	-0.56		1.20	1.78	-0.83	-0.07	0.00	0.00	0.11	-0.50	0.07	0.83
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square																			
Yi MAXIMUM	-2.46	2.01	-1.37	-0.60	1.13	-1.30	-1.35	-1.57	-1.06	2.36	1.78	2.88	-1.09	-1.21	-0.72	-1.20	-2.11	-0.80	1.13
Yi MINIMUM	-0.30	0.07	-0.04	0.11	0.00	0.02	0.08	-0.56	-0.48	0.12	-0.39	-0.09	0.03	0.00	0.00	-0.05	-0.05	-0.02	0.45
Yi MEAN	-0.76	0.26	-0.85	-0.33	0.06	-0.44	-0.50	-0.91	-0.75	-0.08	0.80	-0.02	-0.28	-0.20	-0.17	-0.57	-0.89		
Yi STD	0.77	0.79	0.41	0.39	0.60	0.62	0.64	0.32	0.27	1.31	0.82	1.03	0.44	0.37	0.26	0.48	0.61		

bins	count	percent		
-3	0	0.0%		
-2	1	0.6%	-1 < yi ≤ 1	78.9%
-1	25	15.5%	-2 < yi ≤ 2	97.5%
0	92	57.1%	-3 < yi ≤ 3	100.0%
1	35	21.7%	>3	0.0%
2	5	3.1%		
3	3	1.9%		
3 lt yi	0	0.0%		
total	161	100.0%		



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Heavy Duty Diesel Rating Workshop

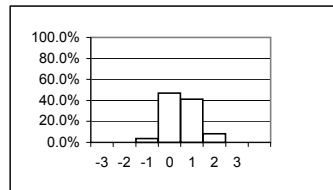
Rater = BARRERA

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.79	0.25	-0.30	-0.80		-0.46	-0.09	-1.78				-0.55				-0.70	-0.70	-0.59	0.54
A1_two-piece																			
A2_two-piece																			
A3_keystone																			
A4_keystone																			
A5_square																			
A6_square																			
B1_two-piece																			
B2_two-piece	0.08	1.00	-0.22		1.61	0.33	0.01	1.40		-1.60	-1.73	-0.13	-0.90	-0.37	0.00	0.67	0.84	0.07	0.97
B3_keystone	1.04	0.93	-0.24		-0.19	0.04	-0.08		-0.06	1.69		-0.22	0.57	0.00	0.00	0.59	0.18	0.30	0.58
B4_keystone	0.89	0.81	0.27		0.46	-0.13	-0.58		-0.34	1.11		-0.50	0.10	0.00	0.00	0.54	0.19	0.20	0.52
B5_square	0.44	0.89	0.52	0.58		0.41	-0.41	0.31				0.66				0.87	1.00	0.53	0.40
B6_square	-0.16	0.98	0.10	0.28		-0.23	0.20	-0.09				0.39				0.14	0.43	0.20	0.35
C1_two-piece																			
C2_two-piece																			
C3_keystone																			
C4_keystone																			
C5_square	1.39	0.31	-0.93	-0.69		0.79	-0.15	-0.28				0.45				1.46	-0.11	0.22	0.81
C6_square	0.59	0.51	-0.45	-0.23		0.43	-0.05	-0.38				0.55				0.69	0.21	0.19	0.43
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square	1.39	0.17	-0.80	-0.87		0.84	-0.22	-0.29				0.20				1.35	-0.17	0.16	0.80
Yi MAXIMUM	1.39	1.00	-0.93	-0.87	1.61	0.84	-0.58	-1.78	-0.34	1.69	-1.73	0.66	-0.90	-0.37	0.00	1.46	1.00	-0.59	0.97
Yi MINIMUM	0.08	0.17	0.10	-0.23	-0.19	0.04	0.01	-0.09	-0.06	1.11	-1.73	-0.13	0.10	0.00	0.00	0.14	-0.11	0.07	0.35
Yi MEAN	0.54	0.65	-0.23	-0.29	0.62	0.22	-0.15	-0.16	-0.20	0.40	-1.73	0.09	-0.07	-0.12	0.00	0.62	0.21		
Yi STD	0.73	0.34	0.47	0.61	0.91	0.45	0.23	0.94	0.20	1.76		0.46	0.75	0.21	0.00	0.64	0.52		

bins	count	percent
-3	0	0.0%
-2	0	0.0%
-1	3	3.5%
0	40	47.1%
1	35	41.2%
2	7	8.2%
3	0	0.0%
total	85	100.0%

-1 < yi ≤ 1	88.2%
-2 < yi ≤ 2	100.0%
-3 < yi ≤ 3	100.0%
>3	0.0%



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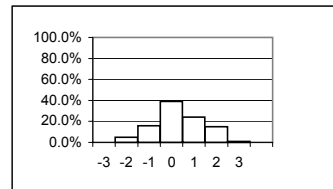
Heavy Duty Diesel Rating Workshop

Rater = BROWN

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	2.07	0.65	-0.94	-1.00		1.06	1.08	-1.18				1.11				2.02	2.02	0.69	1.29
A1_two-piece																			
A2_two-piece																			
A3_keystone																			
A4_keystone																			
A5_square																			
A6_square																			
B1_two-piece	1.62	-0.97	0.62		-2.08	-1.48	0.11	-1.20		-0.68	-1.93	0.09	1.73	-0.26	-0.36	-1.75	-1.00	-0.50	1.18
B2_two-piece	0.12	-0.34	0.47		-2.02	-2.06	-0.90	-1.21		1.41	0.45	0.68	-1.77	-0.37	0.00	-1.69	-1.22	-0.56	1.08
B3_keystone																			
B4_keystone	-1.69	-0.45	-0.48		-1.01	0.32	-0.07		0.42	0.12		0.01	-1.45	0.00	0.00	-0.61	-0.08	-0.35	0.64
B5_square	1.46	-1.82	0.71	0.77		-0.74	-0.43	1.18				-0.29				0.47	-0.99	0.03	1.05
B6_square	0.89	-2.04	-0.97	-0.17		-0.67	0.66	-0.55				0.58				-0.06	-0.96	-0.33	0.90
C1_two-piece	0.11	-0.15	-1.85		0.86	-0.24	-0.43	-1.06		0.90	0.23	-0.54	-0.43	1.55	1.14	0.43	-1.09	-0.04	0.93
C2_two-piece	-0.79	-2.08	1.71		1.57	-1.41	1.09	-1.08		0.08	0.08	-0.37	-0.94	0.00	0.00	-0.48	-0.50	-0.21	1.05
C3_keystone	1.24	-1.10	-0.87		-0.94	-0.73	-0.08		-0.92	1.50		0.30	-1.13	0.00	0.00	-0.82	-0.52	-0.29	0.84
C4_keystone																			
C5_square																			
C6_square																			
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square																			
Yi MAXIMUM	2.07	-2.08	-1.85	-1.00	-2.08	-2.06	1.09	-1.21	-0.92	1.50	-1.93	1.11	-1.77	1.55	1.14	2.02	2.02	0.69	1.29
Yi MINIMUM	0.11	-0.15	0.47	-0.17	0.86	-0.24	-0.07	-0.55	0.42	0.08	0.08	0.01	-0.43	0.00	0.00	-0.06	-0.08	0.03	0.64
Yi MEAN	0.56	-0.92	-0.18	-0.13	-0.60	-0.66	0.11	-0.73	-0.25	0.56	-0.29	0.17	-0.67	0.15	0.13	-0.28	-0.48		
Yi STD	1.23	0.94	1.12	0.89	1.50	0.96	0.70	0.87	0.95	0.86	1.10	0.54	1.26	0.70	0.52	1.17	1.00		

bins	count	percent		
-3	0	0.0%		
-2	5	5.0%	-1 < yi ≤ 1	63.0%
-1	16	16.0%	-2 < yi ≤ 2	94.0%
0	39	39.0%	-3 < yi ≤ 3	100.0%
1	24	24.0%	>3	0.0%
2	15	15.0%		
3	1	1.0%		
3 lt yi	0	0.0%		
total	100	100.0%		



October 20, 2002

Heavy Duty Diesel Rating Workshop

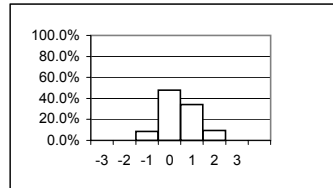
Rater = CAMPBELL

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	0.50	0.97	0.34	-0.31		-0.85	-0.06	0.45				0.18				0.21	0.21	0.16	0.49
A1_two-piece																			
A2_two-piece																			
A3_keystone																			
A4_keystone																			
A5_square																			
A6_square																			
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone	-0.90	-1.00	-0.44		1.62	0.47	-0.54		-0.64	-0.60		-0.76	-0.48	0.00	0.00	0.32	-0.60	-0.25	0.69
B5_square																			
B6_square																			
C1_two-piece	0.33	0.54	0.47		0.91	0.81	-1.23	-1.29		-0.54	0.36	0.06	-0.43	-0.75	-0.52	0.71	-0.36	-0.06	0.72
C2_two-piece																			
C3_keystone	-0.55	0.64	-0.29		1.03	-0.53	0.21		-0.57	-1.35		-0.36	1.61	0.00	0.00	0.32	-0.30	-0.01	0.75
C4_keystone	-0.08	-0.28	0.10		0.83	-1.07	0.47		-0.32	-1.01		0.76	-0.33	0.00	0.00	-0.97	-0.46	-0.17	0.60
C5_square	-0.08	0.08	0.82	-0.56		1.03	-0.19	-0.16				0.13				0.33	0.03	0.14	0.48
C6_square																			
D1_two-piece	0.04	1.39	-0.37		1.45	1.46	-0.75	-1.71		-1.37	0.27	1.12	-0.65	0.00	0.00	0.88	-0.35	0.09	1.01
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square	-0.32	-0.47	0.04	-0.10		0.37	-0.51	0.23				-0.05				-0.04	-0.08	-0.09	0.28
D6_square	0.94	0.46	1.52	-1.30		-0.08	0.31	0.38				0.84				0.78	0.68	0.45	0.75
Cx_square																			
Yi MAXIMUM	0.94	1.39	1.52	-1.30	1.62	1.46	-1.23	-1.71	-0.64	-1.37	0.36	1.12	1.61	-0.75	-0.52	-0.97	0.68	0.45	1.01
Yi MINIMUM	0.04	0.08	0.04	-0.10	0.83	-0.08	-0.06	-0.16	-0.32	-0.54	0.27	-0.05	-0.33	0.00	0.00	-0.04	0.03	-0.01	0.28
Yi MEAN	-0.01	0.26	0.24	-0.56	1.17	0.18	-0.25	-0.35	-0.51	-0.97	0.32	0.21	-0.05	-0.15	-0.10	0.28	-0.14		
Yi STD	0.55	0.75	0.63	0.53	0.35	0.87	0.55	0.93	0.17	0.39	0.06	0.60	0.94	0.33	0.23	0.55	0.39		

bins	count	percent
-3	0	0.0%
-2	0	0.0%
-1	8	8.5%
0	45	47.9%
1	32	34.0%
2	9	9.6%
3	0	0.0%
total	94	100.0%

-1 < yi ≤ 1	81.9%
-2 < yi ≤ 2	100.0%
-3 < yi ≤ 3	100.0%
>3	0.0%



October 20, 2002

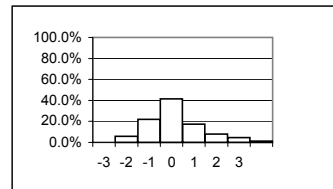
Heavy Duty Diesel Rating Workshop

Rater = CAPRONI

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.09	-1.48	-0.60	-0.21		2.09	0.80	0.34				-0.74				0.61	0.61	0.13	0.99
A1_two-piece																			
A2_two-piece																			
A3_keystone																			
A4_keystone																			
A5_square																			
A6_square																			
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square	1.67	-2.11	0.71	-0.17		-1.40	-0.80	0.31				-0.06				0.31	-1.74	-0.33	1.18
B6_square																			
C1_two-piece	2.33	-0.99	0.42		-0.52	-0.96	-0.70	-0.38		-0.15	-1.20	1.97	0.49	1.55	-0.52	0.84	0.45	0.18	1.10
C2_two-piece																			
C3_keystone																			
C4_keystone																			
C5_square	-0.13	-2.13	0.63	-1.33		-2.19	-0.09	3.50				-1.83				-1.59	0.26	-0.49	1.74
C6_square	1.15	-2.12	-0.65	-0.71		-1.31	-0.05	0.26				1.42				0.26	-1.20	-0.29	1.11
D1_two-piece	-0.62	-2.60	-0.30		-1.84	-1.35	-1.35	-1.02		-0.30	-0.15	-1.07	-0.65	0.00	0.00	-1.86	-2.13	-1.02	0.82
D2_two-piece	1.40	-1.43	-0.02		-1.24	-1.19	0.50	1.62		0.23	-0.46	-0.04	0.00	0.80	0.47	-0.02	1.04	0.11	0.92
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square	-0.62	-1.83	-0.38	-0.65		-0.82	0.07	0.42				0.16				-1.53	-1.63	-0.68	0.78
Cx_square	-0.07	-1.84	2.42	-1.45		-1.90	-0.17	2.71				-1.75				-1.46	0.12	-0.34	1.71
Yi MAXIMUM	2.33	-2.60	2.42	-1.45	-1.84	-2.19	-1.35	3.50		-0.30	-1.20	1.97	-0.65	1.55	-0.52	-1.86	-2.13	-1.02	1.74
Yi MINIMUM	-0.07	-0.99	-0.02	-0.17	-0.52	-0.82	-0.05	0.26		-0.15	-0.15	-0.04	0.00	0.00	0.00	-0.02	0.12	0.11	0.78
Yi MEAN	0.56	-1.84	0.25	-0.75	-1.20	-1.00	-0.20	0.86		-0.07	-0.60	-0.21	-0.05	0.79	-0.01	-0.50	-0.47		
Yi STD	1.09	0.48	0.96	0.54	0.66	1.23	0.67	1.47		0.27	0.54	1.30	0.57	0.78	0.50	1.09	1.19		

bins	count	percent		
-3	0	0.0%		
-2	5	5.7%	-1 < yi ≤ 1	58.6%
-1	19	21.8%	-2 < yi ≤ 2	88.5%
0	36	41.4%	-3 < yi ≤ 3	98.9%
1	15	17.2%	>3	1.1%
2	7	8.0%		
3	4	4.6%		
3 lt yi	1	1.1%		
total	87	100.0%		



October 20, 2002

Heavy Duty Diesel Rating Workshop

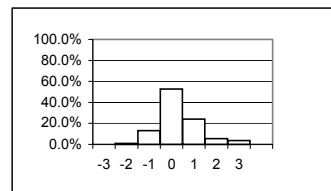
Rater = CASSIDY

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.31	-0.52	-0.23	0.53		-0.12	-0.58	-0.17				0.18				-0.51	-0.51	-0.22	0.36
A1_two-piece	-0.28	0.65	0.06		-1.42	-0.11	0.06	-0.84		0.89	0.36	-0.51	1.17	-0.25	-0.25	-0.24	-0.65	-0.09	0.67
A2_two-piece	-0.41	-0.85	-1.66		-1.35	-0.74	2.93	1.19		0.40	-0.51	-1.20	-1.09	0.00	-0.27	-1.63	1.00	-0.28	1.24
A3_keystone	-0.47	-2.72	0.48		-0.71	2.99	0.60		-0.27	2.40		0.11	-0.76	0.00	-0.24	0.59	0.80	0.20	1.38
A4_keystone	0.99	-1.60	-1.17		-1.91	0.33	-0.82		-0.64	0.94		-0.36	0.63	-0.39	-0.72	-0.66	-0.57	-0.43	0.88
A5_square	0.24	-0.28	-0.63	-0.62		-0.89	-0.25	-0.12				-0.85				-0.16	-0.53	-0.41	0.36
A6_square	0.15	-0.65	-0.97	-0.80		-0.11	-0.14	-0.44				0.96				-0.07	-0.64	-0.27	0.56
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square																			
B6_square																			
C1_two-piece	-0.25	-0.46	-0.78		-1.57	1.27	0.58	-0.93		1.16	-1.84	-0.78	-1.35	0.17	-0.52	-1.00	-0.91	-0.48	0.93
C2_two-piece	-0.05	0.05	2.27		-1.94	-1.43	0.35	-0.33		1.38	-0.37	-0.50	-0.51	0.00	0.00	-0.87	0.19	-0.12	1.01
C3_keystone																			
C4_keystone																			
C5_square																			
C6_square	0.79	-1.86	0.60	1.68		-0.46	0.71	0.26				-0.32				0.37	0.33	0.21	0.94
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square																			
Yi MAXIMUM	0.99	-2.72	2.27	1.68	-1.94	2.99	2.93	1.19	-0.64	2.40	-1.84	-1.20	-1.35	-0.39	-0.72	-1.63	1.00	-0.48	1.38
Yi MINIMUM	-0.05	0.05	0.06	0.53	-0.71	-0.11	0.06	-0.12	-0.27	0.40	0.36	0.11	-0.51	0.00	0.00	-0.07	0.19	-0.09	0.36
Yi MEAN	0.04	-0.83	-0.20	0.20	-1.48	0.07	0.34	-0.17	-0.46	1.20	-0.59	-0.33	-0.32	-0.08	-0.33	-0.42	-0.15		
Yi STD	0.50	0.99	1.13	1.15	0.45	1.26	1.05	0.67	0.26	0.68	0.92	0.61	1.00	0.20	0.25	0.66	0.68		

bins	count	percent
-3	0	0.0%
-2	1	0.9%
-1	14	13.0%
0	57	52.8%
1	26	24.1%
2	6	5.6%
3	4	3.7%
total	108	100.0%

-1 < yi ≤ 1	76.9%
-2 < yi ≤ 2	95.4%
-3 < yi ≤ 3	100.0%
>3	0.0%



October 20, 2002

Heavy Duty Diesel Rating Workshop

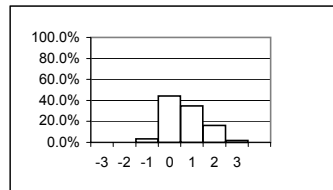
Rater = CASTILLO

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	0.56	-0.66	-1.09	-0.01		-0.36	1.77	1.49				0.74				-0.11	-0.11	0.22	0.91
A1_two-piece	0.98	-0.75	1.20		1.43	0.10	1.55	2.16		0.29	-0.41	0.73	-0.36	-0.25	-0.25	2.11	2.65	0.75	1.08
A2_two-piece	0.24	0.33	0.52		0.01	-0.42	0.58	0.46		0.65	-0.74	1.32	-0.03	0.00	-0.27	0.38	0.96	0.27	0.53
A3_keystone	0.41	-0.19	1.29		2.67	-0.21	1.20		0.56	-0.20		0.36	-0.19	0.00	-0.24	1.75	1.10	0.59	0.89
A4_keystone	-0.89	-0.27	0.06		1.67	-0.15	0.32		-0.38	0.15		0.32	1.51	-0.39	-0.72	-0.04	-0.11	0.08	0.73
A5_square	-0.10	-0.71	-0.41	-0.46		0.22	0.13	-0.71				1.52				-0.29	-0.56	-0.14	0.67
A6_square	-0.84	-1.74	-0.60	-0.53		0.57	0.04	-0.01				1.08				-0.71	-0.47	-0.32	0.79
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square	-0.82	-0.41	-0.32	-0.17		-0.12	0.65	0.31				1.14				-0.92	-0.37	-0.10	0.64
B6_square	-0.30	0.41	0.77	0.03		0.09	0.71	0.76				0.95				0.04	0.60	0.41	0.42
C1_two-piece																			
C2_two-piece																			
C3_keystone																			
C4_keystone																			
C5_square																			
C6_square																			
D1_two-piece	-0.79	0.08	0.15		-0.32	0.11	0.75	-0.49		-0.09	0.38	-0.73	1.58	0.00	0.00	-0.43	-0.21	0.00	0.60
D2_two-piece	0.25	-0.03	0.65		-0.20	0.39	1.73	0.15		0.16	-0.66	1.05	0.00	-0.02	-0.71	0.11	0.79	0.24	0.63
D3_keystone	2.46	1.47	0.69		1.32	-0.72	0.42		1.86	-0.85		0.32	-1.01	-0.29	0.00	1.52	1.76	0.64	1.12
D4_keystone	-0.11	-0.93	0.17		1.20	0.19	1.61		1.96	-0.24		-0.45	-1.05	0.00	-1.25	0.49	1.76	0.24	1.05
D5_square	-0.32	-0.29	-0.46	0.62		-0.42	0.29	0.88				1.06				-0.55	-0.06	0.08	0.59
D6_square	0.70	-0.15	0.77	-0.65		-0.18	1.31	1.44				0.16				0.43	0.68	0.45	0.67
Cx_square																			
Yi MAXIMUM	2.46	-1.74	1.29	-0.65	2.67	-0.72	1.77	2.16	1.96	-0.85	-0.74	1.52	1.58	-0.39	-1.25	2.11	2.65	0.75	1.12
Yi MINIMUM	-0.10	-0.03	0.06	-0.01	0.01	0.09	0.04	-0.01	-0.38	-0.09	0.38	0.16	0.00	0.00	0.00	0.04	-0.06	0.00	0.42
Yi MEAN	0.10	-0.26	0.23	-0.17	0.97	-0.06	0.87	0.58	1.00	-0.01	-0.36	0.64	0.06	-0.12	-0.43	0.25	0.56		
Yi STD	0.89	0.72	0.70	0.43	1.05	0.34	0.60	0.87	1.12	0.44	0.51	0.64	1.00	0.16	0.43	0.90	0.96		

bins	count	percent
-3	0	0.0%
-2	0	0.0%
-1	5	3.2%
0	69	44.2%
1	54	34.6%
2	25	16.0%
3	3	1.9%
total	156	100.0%

-1 < yi ≤ 1	78.8%
-2 < yi ≤ 2	98.1%
-3 < yi ≤ 3	100.0%
>3	0.0%



October 20, 2002

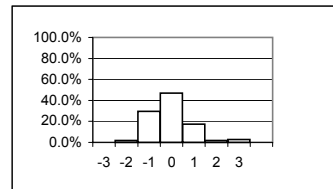
Heavy Duty Diesel Rating Workshop

Rater = CLAPPERTY

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.04	-0.20	0.19	0.29		-1.09	-0.86	-0.51				1.47				-0.86	-0.86	-0.25	0.77
A1_two-piece																			
A2_two-piece																			
A3_keystone																			
A4_keystone																			
A5_square																			
A6_square																			
B1_two-piece																			
B2_two-piece																			
B3_keystone	-0.93	-0.09	-0.42		2.84	-1.20	-0.89		0.11	-0.94		-0.22	-1.21	0.00	0.00	0.00	-0.72	-0.26	1.01
B4_keystone																			
B5_square	-1.37	-0.06	0.61	0.58		-1.57	-0.73	0.22				-1.01				-1.78	-0.59	-0.57	0.88
B6_square																			
C1_two-piece	-0.56	0.24	-0.37		-1.17	-1.70	-1.50	0.99		-1.72	-0.93	-0.66	-0.43	-1.21	2.80	-1.37	-0.63	-0.55	1.18
C2_two-piece	-0.77	1.45	-1.21		0.34	0.45	-2.43	-1.42		-1.51	-0.40	-1.12	-0.08	0.00	0.00	-0.70	-1.89	-0.62	1.01
C3_keystone	-1.07	0.87	-1.39		0.45	-1.27	-1.29		-0.39	-1.66		-0.49	0.51	0.00	0.00	-0.29	-1.42	-0.53	0.83
C4_keystone	-0.80	-0.24	-0.48		2.66	-1.51	-1.37		-0.79	-1.21		-0.84	-0.71	0.00	0.00	-1.38	-1.83	-0.61	1.09
C5_square	-1.71	0.41	-0.19	0.86		-0.92	-0.56	-1.05				-0.20				-1.96	-0.95	-0.63	0.88
C6_square	-1.43	-0.91	-0.38	0.04		-0.81	-0.51	-0.68				-0.32				-1.65	-1.42	-0.81	0.55
D1_two-piece																			
D2_two-piece	-1.50	0.68	-1.35		-0.96	-0.55	-1.98	-1.51		-1.99	-0.93	-1.84	-1.22	-2.08	-0.71	-2.13	-2.35	-1.36	0.79
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square	-1.57	0.25	0.73	0.53		-0.73	-0.53	-0.90				-0.35				-1.79	-0.83	-0.52	0.84
Yi MAXIMUM	-1.71	1.45	-1.39	0.86	2.84	-1.70	-2.43	-1.51	-0.79	-1.99	-0.93	-1.84	-1.22	-2.08	2.80	-2.13	-2.35	-1.36	1.18
Yi MINIMUM	-0.04	-0.06	-0.19	0.04	0.34	0.45	-0.51	0.22	0.11	-0.94	-0.40	-0.20	-0.08	0.00	0.00	0.00	-0.59	-0.25	0.55
Yi MEAN	-1.07	0.22	-0.39	0.46	0.69	-0.99	-1.15	-0.61	-0.35	-1.50	-0.75	-0.51	-0.53	-0.55	0.35	-1.26	-1.23		
Yi STD	0.51	0.63	0.72	0.31	1.72	0.60	0.63	0.84	0.45	0.38	0.31	0.82	0.67	0.89	1.24	0.71	0.59		

bins	count	percent		
-3	0	0.0%		
-2	2	1.7%	-1 < yi ≤ 1	64.3%
-1	34	29.6%	-2 < yi ≤ 2	95.7%
0	54	47.0%	-3 < yi ≤ 3	100.0%
1	20	17.4%	>3	0.0%
2	2	1.7%		
3	3	2.6%		
3 lt yi	0	0.0%		
total	115	100.0%		



October 20, 2002

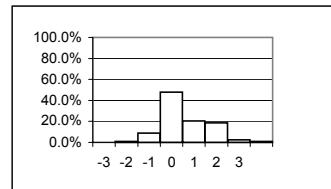
Heavy Duty Diesel Rating Workshop

Rater = DAVEY

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	0.77	0.51	2.86	1.28		1.22	1.27	0.85				-0.37				1.59	1.59	1.16	0.84
A1_two-piece	-0.21	0.12	-0.05		-0.72	-0.42	-0.43	-0.77		-1.18	-0.67	0.37	0.02	-0.25	-0.25	-1.59	-0.89	-0.46	0.52
A2_two-piece																			
A3_keystone																			
A4_keystone																			
A5_square																			
A6_square	1.84	0.49	-0.51	-0.57		0.01	-0.12	-0.35				0.96				1.46	-0.16	0.31	0.85
B1_two-piece	0.43	-0.99	2.18		-1.20	1.12	-1.00	-0.98		-1.07	-0.05	1.49	-1.25	3.61	-0.36	-0.82	-0.31	0.05	1.45
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square																			
B6_square	1.10	-1.00	-0.88	-0.90		-1.43	1.07	-0.90				1.51				0.26	-0.92	-0.21	1.08
C1_two-piece																			
C2_two-piece	-0.55	0.71	-0.11		-0.62	2.20	-0.74	-0.60		-0.97	0.92	-1.62	-1.36	0.00	0.00	-0.08	-0.47	-0.22	0.95
C3_keystone	0.74	1.38	0.11		1.45	1.53	-0.72		-0.21	0.98		-0.62	1.03	0.00	0.00	2.32	0.79	0.63	0.89
C4_keystone	1.07	-0.90	-0.24		-0.16	0.88	1.77		-1.06	-1.23		1.93	0.43	0.00	0.00	0.88	0.49	0.28	0.98
C5_square	1.77	-2.09	-0.49	-0.43		-0.96	-0.36	-0.47				1.92				-0.23	-1.60	-0.29	1.27
C6_square	0.45	0.27	0.32	0.25		-0.19	0.05	1.69				-0.49				0.40	0.91	0.36	0.60
D1_two-piece																			
D2_two-piece																			
D3_keystone	-0.57	-0.66	-0.15		1.67	0.99	1.90		0.02	-0.64		-1.89	-0.33	-0.29	0.00	1.28	0.92	0.16	1.06
D4_keystone																			
D5_square																			
D6_square																			
Cx_square	1.75	-1.80	0.12	-0.64		-0.76	-0.38	-0.43				1.45				-0.21	-1.34	-0.22	1.11
Yi MAXIMUM	1.84	-2.09	2.86	1.28	1.67	2.20	1.90	1.69	-1.06	-1.23	0.92	1.93	-1.36	3.61	-0.36	2.32	-1.60	1.16	1.45
Yi MINIMUM	-0.21	0.12	-0.05	0.25	-0.16	0.01	0.05	-0.35	0.02	-0.64	-0.05	-0.37	0.02	0.00	0.00	-0.08	-0.16	0.05	0.52
Yi MEAN	0.72	-0.33	0.26	-0.17	0.07	0.35	0.19	-0.22	-0.41	-0.69	0.07	0.39	-0.24	0.51	-0.10	0.44	-0.08		
Yi STD	0.85	1.07	1.11	0.80	1.20	1.13	1.03	0.89	0.57	0.84	0.80	1.36	0.94	1.53	0.16	1.12	1.01		

bins	count	percent		
-3	0	0.0%		
-2	1	0.8%		
-1	11	8.9%	-1 < yi ≤ -2	68.3%
0	59	48.0%	-2 < yi ≤ -1	95.9%
1	25	20.3%	-3 < yi ≤ 0	99.2%
2	23	18.7%	> 3	0.8%
3	3	2.4%		
3 lt yi	1	0.8%		
total	123	100.0%		



October 20, 2002

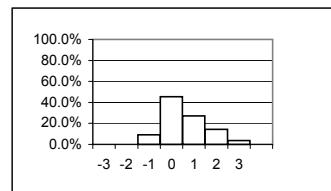
Heavy Duty Diesel Rating Workshop

Rater = FOECKING

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.19	-1.43	-0.38	-0.21		0.76	-0.10	0.21				1.29				-0.29	-0.29	-0.06	0.72
A1_two-piece																			
A2_two-piece	-0.41	1.04	0.20		0.60	0.42	0.18	-0.38		0.14	-1.21	-1.20	-0.56	0.00	-0.27	0.42	0.14	-0.06	0.62
A3_keystone	-0.20	-0.17	-0.50		0.20	-0.24	0.33		-0.33	0.03		0.11	-1.05	0.00	-0.24	-0.17	-0.19	-0.17	0.33
A4_keystone																			
A5_square																			
A6_square	0.61	-0.04	-0.41	-0.71		0.59	-0.53	-0.82				-0.01				0.52	-0.46	-0.13	0.54
B1_two-piece	-0.05	-0.35	0.85		1.26	0.69	0.54	0.83		-0.20	1.04	-1.32	-0.59	-0.26	-0.36	1.01	0.99	0.27	0.76
B2_two-piece	-0.51	1.50	1.39		0.91	1.03	1.05	2.20		1.32	0.29	-1.10	-0.29	1.36	0.00	2.10	2.14	0.89	1.01
B3_keystone	1.20	0.04	-0.45		1.47	0.01	2.52		-0.48	0.51		0.62	-0.77	0.00	0.00	1.29	1.54	0.54	0.95
B4_keystone	1.31	0.52	-1.03		1.16	2.06	-0.49		-0.66	1.27		0.53	-0.67	0.00	0.00	2.59	0.24	0.49	1.08
B5_square	-1.24	1.69	-1.17	-0.99		1.64	-0.31	-1.09				0.18				-0.11	0.83	-0.06	1.13
B6_square	1.71	0.88	-1.06	-0.62		-0.62	-0.42	0.69				2.08				1.70	-0.03	0.43	1.13
C1_two-piece																			
C2_two-piece																			
C3_keystone																			
C4_keystone	-0.66	-0.15	-0.04		0.32	0.61	0.58		-0.03	2.14		-1.13	-0.71	0.00	0.00	0.62	1.02	0.18	0.81
C5_square																			
C6_square																			
D1_two-piece	-0.54	0.46	0.15		0.42	0.90	1.54	0.58		-0.83	-0.69	-0.96	-0.65	0.00	0.00	0.07	0.92	0.09	0.73
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square																			
Yi MAXIMUM	1.71	1.69	1.39	-0.99	1.47	2.06	2.52	2.20	-0.66	2.14	-1.21	2.08	-1.05	1.36	-0.36	2.59	2.14	0.89	1.13
Yi MINIMUM	-0.05	0.04	-0.04	-0.21	0.20	0.01	-0.10	0.21	-0.03	0.03	0.29	-0.01	-0.29	0.00	0.00	0.07	-0.03	-0.06	0.33
Yi MEAN	0.09	0.33	-0.20	-0.63	0.79	0.65	0.41	0.28	-0.37	0.55	-0.14	-0.08	-0.66	0.14	-0.11	0.81	0.57		
Yi STD	0.91	0.87	0.77	0.33	0.47	0.74	0.92	1.05	0.26	0.97	1.01	1.09	0.21	0.50	0.15	0.94	0.80		

bins	count	percent		
-3	0	0.0%		
-2	0	0.0%	-1 < yi ≤ 1	72.7%
-1	12	9.1%	-2 < yi ≤ 2	96.2%
0	60	45.5%	-3 < yi ≤ 3	100.0%
1	36	27.3%	>3	0.0%
2	19	14.4%		
3	5	3.8%		
3 lt yi	0	0.0%		
total	132	100.0%		



October 20, 2002

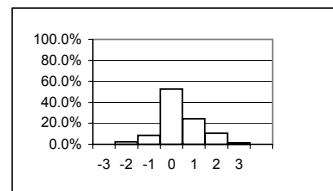
Heavy Duty Diesel Rating Workshop

Rater = GARCIA, P

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-1.44	0.85	-0.50	0.29		-1.15	-0.53	1.03				0.00				-1.07	-1.07	-0.36	0.87
A1_two-piece																			
A2_two-piece																			
A3_keystone																			
A4_keystone																			
A5_square																			
A6_square																			
B1_two-piece	0.17	-0.12	-1.16		0.84	-0.17	0.54	0.51		-0.60	1.84	0.89	0.07	-0.26	-0.36	0.33	0.17	0.18	0.71
B2_two-piece	-0.74	-2.11	-0.38		0.67	0.56	-1.62	-0.47		-0.43	0.86	0.20	1.83	-0.37	0.00	-0.61	-1.09	-0.25	0.99
B3_keystone	-0.44	1.18	-0.14		-0.05	-0.11	-0.85		-0.22	0.25		0.20	1.47	0.00	0.00	0.12	-0.54	0.06	0.61
B4_keystone	1.49	-0.83	0.03		1.49	-0.73	-0.11		1.33	-1.04		-0.50	1.26	0.00	0.00	-0.03	0.34	0.19	0.88
B5_square	0.10	1.20	-0.23	-0.54		0.68	-0.16	-0.91				-1.25				0.71	0.79	0.04	0.80
B6_square	0.97	-0.91	-0.05	-0.33		0.31	0.20	0.65				-0.35				0.77	-0.14	0.11	0.58
C1_two-piece	-0.40	-0.88	-0.61		-0.14	1.17	0.11	0.07		-0.67	0.75	-0.42	0.49	-1.21	-0.52	-0.40	-0.42	-0.21	0.63
C2_two-piece	1.13	-0.54	0.01		2.02	-0.79	0.95	0.93		-2.01	-0.07	0.50	1.20	0.00	0.00	1.11	1.05	0.37	1.00
C3_keystone	0.35	-0.44	-0.81		1.82	-0.17	-0.50		-0.52	0.75		-0.49	-0.66	0.00	0.00	0.26	-0.37	-0.06	0.69
C4_keystone	-1.09	1.61	-0.05		-0.53	-0.15	-0.37		0.55	0.17		-0.55	0.05	0.00	0.00	-0.19	-0.08	-0.04	0.61
C5_square	-0.66	0.07	-0.45	0.21		1.33	-0.35	-0.58				-1.18				-0.22	-0.44	-0.23	0.67
C6_square	-0.43	0.26	-0.38	-0.57		1.15	-0.97	-0.58				-0.67				0.05	-0.15	-0.23	0.60
D1_two-piece	0.40	-0.47	-0.23		1.27	-0.64	0.03	0.81		0.34	-1.87	0.78	2.03	0.00	0.00	0.07	0.26	0.19	0.89
D2_two-piece	-1.19	-0.01	-0.07		0.36	1.11	-0.65	-0.77		2.10	-1.48	-1.48	0.00	-0.02	-0.71	-0.36	-0.73	-0.26	0.95
D3_keystone	-0.57	-0.34	-0.87		0.76	-0.87	-0.41		-0.35	0.76		-0.51	0.76	-0.29	0.00	-0.30	-0.54	-0.20	0.57
D4_keystone	-2.53	1.44	-0.79		1.59	-0.68	-0.51		-0.98	0.63		-1.57	0.17	0.00	-0.02	-1.16	-1.66	-0.43	1.17
D5_square	-0.20	1.32	-1.12	-0.55		0.03	-1.11	-0.88				-0.05				0.12	0.02	-0.24	0.73
D6_square	-2.93	0.87	-0.43	-0.39		-0.16	0.23	-1.53				-2.22				-1.70	-0.47	-0.87	1.18
Cx_square	-0.57	-0.03	0.20	-0.05		1.34	-0.37	-0.52				-1.19				-0.19	-0.43	-0.18	0.66
Yi MAXIMUM	-2.93	-2.11	-1.16	-0.57	2.02	1.34	-1.62	-1.53	1.33	2.10	-1.87	-2.22	2.03	-1.21	-0.71	-1.70	-1.66	-0.87	1.18
Yi MINIMUM	0.10	-0.01	0.01	-0.05	-0.05	0.03	0.03	0.07	-0.22	0.17	-0.07	0.00	0.00	0.00	0.00	-0.03	0.02	0.04	0.57
Yi MEAN	-0.43	0.11	-0.40	-0.24	0.84	0.10	-0.32	-0.16	-0.03	0.02	0.01	-0.49	0.72	-0.18	-0.13	-0.13	-0.28		
Yi STD	1.10	0.98	0.39	0.35	0.82	0.81	0.59	0.81	0.83	1.05	1.44	0.81	0.84	0.35	0.25	0.67	0.63		

bins	count	percent		
-3	0	0.0%		
-2	5	2.3%	-1 < yi ≤ 1	77.1%
-1	18	8.4%	-2 < yi ≤ 2	96.3%
0	113	52.8%	-3 < yi ≤ 3	100.0%
1	52	24.3%	>3	0.0%
2	23	10.7%		
3	3	1.4%		
3 lt yi	0	0.0%		
total	214	100.0%		



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Heavy Duty Diesel Rating Workshop

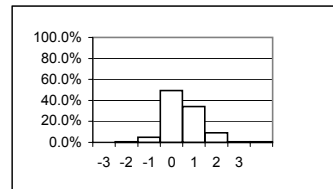
Rater = GARRETT

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.09	0.72	-0.11	1.77		0.39	-0.49	-0.88				-0.37				0.48	0.48	0.19	0.75
A1_two-piece	0.09	0.52	-0.84		0.44	1.00	-0.71	0.01		-0.50	-0.29	0.37	-0.36	-0.25	-0.25	0.33	-0.25	-0.05	0.50
A2_two-piece	-0.08	-0.07	0.37		0.30	0.61	-0.50	-0.48		-1.67	-0.74	0.55	-0.03	0.00	-0.27	-0.20	-0.40	-0.17	0.57
A3_keystone	-0.17	-0.05	0.24		-0.32	-0.64	-0.35		0.22	0.70		-0.91	1.23	0.00	4.01	-0.59	0.12	0.25	1.21
A4_keystone	0.75	0.48	0.25		0.27	-0.66	-0.61		-0.23	1.21		0.32	0.63	-0.39	0.90	0.89	0.26	0.29	0.58
A5_square	0.04	-0.19	-0.15	-0.41		1.61	-0.51	-0.55				-0.85				0.27	-0.18	-0.09	0.68
A6_square	0.50	0.41	0.01	-0.08		-0.22	-0.41	-0.68				0.23				0.31	-0.19	-0.01	0.38
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square																			
B6_square																			
C1_two-piece																			
C2_two-piece																			
C3_keystone																			
C4_keystone																			
C5_square																			
C6_square																			
D1_two-piece	-0.87	0.40	-1.43		0.43	0.34	0.75	-0.87		-0.30	-0.15	-0.96	-0.65	0.00	0.00	-0.34	-0.66	-0.29	0.62
D2_two-piece	0.06	1.29	1.13		0.11	0.44	-0.12	-0.96		-0.38	1.71	0.69	0.00	-0.02	1.66	0.62	0.00	0.42	0.76
D3_keystone	0.02	1.21	1.97		-0.22	-0.08	-1.41		2.13	1.69		-0.23	-0.33	-0.29	0.00	0.08	1.46	0.43	1.06
D4_keystone	0.09	0.35	-0.28		-0.05	0.27	-1.64		0.62	0.08		-1.12	0.35	0.00	0.96	0.28	-0.23	-0.02	0.67
D5_square	0.27	-0.43	1.15	0.81		0.57	0.29	-0.96				-0.42				0.51	0.23	0.20	0.64
D6_square	-0.36	0.38	-0.64	-1.95		0.57	-2.27	-1.66				-0.52				0.00	-1.10	-0.75	0.97
Cx_square																			
Yi MAXIMUM	-0.87	1.29	1.97	-1.95	0.44	1.61	-2.27	-1.66	2.13	1.69	1.71	-1.12	1.23	-0.39	4.01	0.89	1.46	-0.75	1.21
Yi MINIMUM	0.02	-0.05	0.01	-0.08	-0.05	-0.08	-0.12	0.01	0.22	0.08	-0.15	-0.23	0.00	0.00	0.00	0.00	0.00	-0.01	0.38
Yi MEAN	0.02	0.39	0.13	0.03	0.12	0.32	-0.61	-0.78	0.69	0.10	0.13	-0.25	0.11	-0.12	0.88	0.20	-0.04		
Yi STD	0.39	0.50	0.90	1.39	0.29	0.62	0.79	0.45	1.02	1.07	1.08	0.62	0.61	0.16	1.44	0.41	0.61		

bins	count	percent
-3	0	0.0%
-2	1	0.7%
-1	7	5.0%
0	69	49.3%
1	48	34.3%
2	13	9.3%
3	1	0.7%
total	140	100.0%

-1 < yi ≤ 1	83.6%
-2 < yi ≤ 2	97.9%
-3 < yi ≤ 3	99.3%
>3	0.7%



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Heavy Duty Diesel Rating Workshop

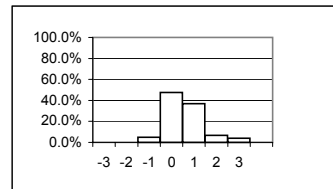
Rater = GREENLAND

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.79	-0.41	-0.11	0.78		-0.52	0.33	-0.40				0.74				-0.94	-0.94	-0.23	0.65
A1_two-piece	-0.73	-0.43	-0.03		1.55	-0.33	-0.15	-0.06		-0.49	-0.53	-0.68	0.41	-0.25	-0.25	-0.84	-0.29	-0.21	0.58
A2_two-piece	-0.52	-1.04	0.11		2.67	-1.12	-0.08	-0.44		-0.38	-0.04	-0.42	0.50	0.00	-0.27	0.64	-0.60	-0.07	0.90
A3_keystone	-1.01	0.07	0.40		-0.49	0.41	-0.53		-0.01	-0.79		0.11	-0.19	0.00	-0.24	-0.58	-0.42	-0.23	0.42
A4_keystone	-0.49	0.31	-0.61		0.35	1.24	-0.43		-0.27	-0.73		0.46	0.05	2.70	0.09	0.07	-0.47	0.16	0.90
A5_square	-1.42	-0.23	0.03	0.63		0.07	-0.03	0.08				0.44				-1.13	-0.03	-0.16	0.64
A6_square	-1.29	-1.72	-0.06	0.55		-1.35	-0.65	-0.25				0.35				-1.55	-0.45	-0.64	0.80
B1_two-piece																			
B2_two-piece																			
B3_keystone	0.05	-0.69	-0.14		-0.35	-0.11	-0.89		0.62	-0.27		0.20	0.72	0.00	0.00	-0.58	-0.52	-0.14	0.46
B4_keystone																			
B5_square	-0.12	-0.83	1.65	1.71		0.20	0.24	1.18				-0.06				-0.28	0.18	0.39	0.85
B6_square	-0.72	-1.61	-0.45	0.40		-0.28	-0.18	0.47				0.77				-1.33	-0.52	-0.34	0.76
C1_two-piece	0.03	0.96	0.94		2.29	-0.70	-0.43	0.17		0.51	0.10	1.25	2.33	0.40	-0.52	1.30	0.81	0.63	0.92
C2_two-piece																			
C3_keystone	0.40	0.77	0.30		-0.77	1.14	0.29		0.08	-0.06		1.47	1.38	0.00	0.00	0.95	0.62	0.47	0.63
C4_keystone	1.07	0.00	-0.04		-0.45	1.02	-0.04		0.28	0.28		0.91	2.90	0.00	0.00	1.08	0.53	0.54	0.84
C5_square	0.39	-0.44	-0.49	2.53		0.54	-0.26	0.83				1.27				0.34	0.23	0.49	0.91
C6_square	-0.28	0.56	0.60	0.66		0.05	0.45	-0.04				0.55				-0.14	0.50	0.29	0.35
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square	-0.08	-1.04	0.21	0.23		-0.90	-0.31	-0.10				-0.42				-0.98	-0.97	-0.44	0.50
D6_square	-0.19	0.08	-0.64	0.64		-0.46	-0.48	-0.29				0.16				-0.43	-0.36	-0.20	0.39
Cx_square	0.43	-0.45	0.12	2.04		0.61	-0.30	0.59				0.90				0.32	0.10	0.44	0.70
Yi MAXIMUM	-1.42	-1.72	1.65	2.53	2.67	-1.35	-0.89	1.18	0.62	-0.79	-0.53	1.47	2.90	2.70	-0.52	-1.55	-0.97	-0.64	0.92
Yi MINIMUM	0.03	0.00	0.03	0.23	0.35	0.05	-0.03	-0.04	-0.01	-0.06	-0.04	-0.06	0.05	0.00	0.00	0.07	-0.03	-0.07	0.35
Yi MEAN	-0.29	-0.34	0.10	1.02	0.60	-0.03	-0.19	0.13	0.14	-0.24	-0.16	0.44	1.01	0.36	-0.15	-0.23	-0.14		
Yi STD	0.65	0.75	0.56	0.78	1.37	0.76	0.36	0.50	0.33	0.46	0.33	0.61	1.10	0.96	0.20	0.85	0.53		

bins	count	percent
-3	0	0.0%
-2	0	0.0%
-1	9	5.0%
0	85	47.5%
1	66	36.9%
2	12	6.7%
3	7	3.9%
total	179	100.0%

-1 < yi ≤ 1	84.4%
-2 < yi ≤ 2	96.1%
-3 < yi ≤ 3	100.0%
>3	0.0%



October 20, 2002

Heavy Duty Diesel Rating Workshop

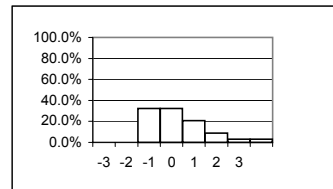
Rater = HILL

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.20	0.17	1.65	-0.84		-1.64	-1.17	-1.44				0.55				-1.15	-1.15	-0.52	1.05
A1_two-piece	0.41	-1.34	-1.60		-0.07	0.93	2.29	-1.09		-1.62	-1.45	0.73	0.41	-0.25	-0.25	-1.40	-1.04	-0.36	1.15
A2_two-piece	-0.41	-0.55	-1.42		-0.30	-0.87	-0.47	-1.80		-1.67	0.19	1.90	1.03	0.00	3.85	-1.76	-2.80	-0.34	1.65
A3_keystone																			
A4_keystone																			
A5_square																			
A6_square																			
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square																			
B6_square																			
C1_two-piece																			
C2_two-piece																			
C3_keystone																			
C4_keystone																			
C5_square																			
C6_square																			
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square																			
Yi MAXIMUM	0.41	-1.34	1.65	-0.84	-0.30	-1.64	2.29	-1.80		-1.67	-1.45	1.90	1.03	-0.25	3.85	-1.76	-2.80	-0.52	1.65
Yi MINIMUM	-0.20	0.17	-1.42	-0.84	-0.07	-0.87	-0.47	-1.09		-1.62	0.19	0.55	0.41	0.00	-0.25	-1.15	-1.04	-0.34	1.05
Yi MEAN	-0.07	-0.57	-0.46	-0.84	-0.19	-0.53	0.22	-1.44		-1.64	-0.63	1.06	0.72	-0.13	1.80	-1.44	-1.66		
Yi STD	0.43	0.76	1.83		0.16	1.32	1.83	0.35		0.04	1.16	0.73	0.44	0.18	2.90	0.31	0.98		

bins	count	percent
-3	0	0.0%
-2	0	0.0%
-1	11	32.4%
0	11	32.4%
1	7	20.6%
2	3	8.8%
3	1	2.9%
total	34	100.0%

-1 < yi ≤ 1	52.9%
-2 < yi ≤ 2	94.1%
-3 < yi ≤ 3	97.1%
>3	2.9%



October 20, 2002

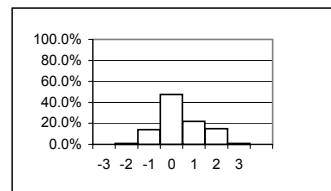
Heavy Duty Diesel Rating Workshop

Rater = HILLS

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.79	-0.54	-0.11	0.78		-0.59	-0.72	-0.93				-0.74				-1.11	-1.11	-0.58	0.56
A1_two-piece																			
A2_two-piece																			
A3_keystone																			
A4_keystone																			
A5_square																			
A6_square	-1.23	1.30	-0.36	0.10		1.44	-0.21	0.11				-1.96				-0.56	0.09	-0.13	1.02
B1_two-piece	-1.20	-0.15	0.31		1.74	-1.01	1.18	1.00		-1.31	-0.50	0.49	1.73	-0.26	-0.36	-0.83	0.38	0.08	1.00
B2_two-piece	-0.80	-0.96	1.49		1.49	0.99	1.78	1.33		-1.27	-1.86	1.33	1.22	-0.37	0.00	0.29	1.57	0.42	1.21
B3_keystone	-0.93	-0.06	-0.40		-0.43	-0.20	0.71		-0.22	-0.68		-0.64	1.02	0.00	0.00	-0.49	0.09	-0.16	0.53
B4_keystone	-0.62	0.42	0.11		-0.83	0.17	-0.27		-0.34	0.06		1.83	1.46	0.00	0.00	-0.17	-0.20	0.12	0.72
B5_square	-1.17	0.39	0.71	0.77		0.64	0.09	0.31				-0.53				-0.72	0.54	0.10	0.68
B6_square	-1.67	0.64	0.04	0.44		-0.31	-0.64	-0.05				-0.91				-1.53	0.08	-0.39	0.78
C1_two-piece	-0.95	-0.37	1.33		-1.36	-0.50	0.79	0.62		-1.72	-0.95	-0.54	0.49	-1.21	-0.52	-1.56	0.14	-0.42	0.92
C2_two-piece	-1.03	-1.15	0.25		-0.78	-0.63	-0.11	1.79		0.48	-1.86	-0.12	-0.51	0.00	0.00	-1.58	0.86	-0.29	0.95
C3_keystone																			
C4_keystone																			
C5_square																			
C6_square																			
D1_two-piece																			
D2_two-piece																			
D3_keystone	-0.99	-0.92	-0.64		-1.39	-0.75	-0.51		-1.19	0.76		0.05	-0.47	-0.29	0.00	-1.73	-1.46	-0.68	0.68
D4_keystone																			
D5_square	-2.58	-0.19	1.37	1.07		2.29	-0.31	0.07				-1.52				0.04	1.18	0.14	1.44
D6_square																			
Cx_square																			
Yi MAXIMUM	-2.58	1.30	1.49	1.07	1.74	2.29	1.78	1.79	-1.19	-1.72	-1.86	-1.96	1.73	-1.21	-0.52	-1.73	1.57	-0.68	1.44
Yi MINIMUM	-0.62	-0.06	0.04	0.10	-0.43	0.17	0.09	-0.05	-0.22	0.06	-0.50	0.05	-0.47	0.00	0.00	0.04	0.08	0.08	0.53
Yi MEAN	-1.16	-0.13	0.34	0.63	-0.22	0.13	0.15	0.47	-0.58	-0.52	-1.29	-0.27	0.71	-0.30	-0.13	-0.83	0.18		
Yi STD	0.52	0.73	0.73	0.37	1.30	1.01	0.79	0.82	0.53	0.97	0.68	1.09	0.90	0.43	0.22	0.68	0.86		

bins	count	percent		
-3	0	0.0%		
-2	1	0.8%	-1 < yi ≤ 1	69.5%
-1	18	14.1%	-2 < yi ≤ 2	98.4%
0	61	47.7%	-3 < yi ≤ 3	100.0%
1	28	21.9%	>3	0.0%
2	19	14.8%		
3	1	0.8%		
3 lt yi	0	0.0%		
total	128	100.0%		



October 20, 2002

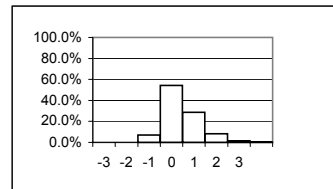
Heavy Duty Diesel Rating Workshop

Rater = HOLLAND

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-1.82	0.91	-0.99	-1.19		-1.03	0.95	1.08				-1.11				-1.13	-1.13	-0.55	1.08
A1_two-piece	-0.86	0.31	2.31		0.17	-0.86	-0.30	-0.02		-0.15	-0.15	0.73	-0.36	-0.25	3.75	-0.71	0.47	0.27	1.24
A2_two-piece	-0.62	-0.65	0.39		-0.63	0.02	-0.78	0.61		-0.38	-0.74	-0.62	-0.03	0.00	-0.27	-1.47	-0.35	-0.37	0.52
A3_keystone	-0.90	2.34	0.32		0.18	-1.06	1.44		0.37	-1.06		0.11	-0.48	0.00	-0.24	-0.26	0.31	0.08	0.93
A4_keystone	0.39	-0.54	-0.57		0.27	-1.60	1.10		0.24	1.41		1.28	-0.54	-0.39	-0.72	0.03	0.55	0.07	0.86
A5_square	0.77	-1.10	0.03	0.21		-0.01	-0.56	-0.47				0.44				0.24	-0.39	-0.08	0.55
A6_square	0.76	-0.16	-0.03	0.10		0.63	0.20	0.64				0.60				0.81	0.33	0.39	0.35
B1_two-piece	0.03	-0.72	-0.53		0.54	-0.80	-0.78	-0.76		-0.20	1.46	1.09	0.40	-0.26	-0.36	-0.20	-0.91	-0.13	0.72
B2_two-piece	-0.56	-0.34	0.93		-0.94	-1.37	1.77	0.33		-0.51	-0.09	0.20	1.53	-0.37	0.00	-1.33	0.57	-0.01	0.93
B3_keystone	-0.44	-1.54	-0.46		-0.32	1.76	-0.19		-0.18	-0.42		0.62	1.32	0.00	0.00	0.06	-0.37	-0.01	0.81
B4_keystone	-0.97	0.60	0.51		0.94	-1.03	0.12		-0.34	-0.52		-0.25	1.26	0.00	0.00	-0.60	-0.25	-0.04	0.68
B5_square	-0.11	0.40	-0.42	-0.36		-0.85	0.33	1.18				-0.77				-0.17	0.22	-0.05	0.61
B6_square	-1.37	0.11	-0.26	-0.77		-0.38	-0.79	-0.30				-0.54				-1.56	-0.68	-0.66	0.51
C1_two-piece	-0.14	-0.75	1.25		0.14	-1.03	0.17	1.58		-0.09	-1.07	0.06	-0.43	0.40	-0.52	-0.27	0.98	0.02	0.78
C2_two-piece	-0.31	-0.51	0.50		-0.70	0.13	0.23	1.04		0.42	-0.22	0.62	-0.08	0.00	0.00	-0.43	0.80	0.10	0.50
C3_keystone	-1.49	0.52	-0.11		-0.05	-0.47	-0.30		-0.03	0.59		-0.49	-1.24	0.00	0.00	-0.43	-0.22	-0.27	0.57
C4_keystone	-0.66	-1.68	-1.43		-0.20	-0.08	0.36		0.11	0.48		-0.26	-0.71	0.00	0.00	-0.42	-0.39	-0.35	0.62
C5_square	-0.41	0.60	-0.86	-0.04		-0.68	-0.19	-0.60				-0.20				-0.52	-0.42	-0.33	0.41
C6_square	-0.25	0.23	1.29	0.66		-0.02	0.25	-0.34				-0.49				-0.18	0.36	0.15	0.53
D1_two-piece	-0.58	-0.47	1.24		-0.69	-0.17	0.64	1.18		0.02	-0.15	0.31	-0.20	0.00	0.00	-0.56	0.66	0.08	0.61
D2_two-piece	-0.42	-0.68	0.86		-0.40	-1.08	-0.06	0.17		-0.15	0.79	0.33	2.45	-0.02	-0.71	-0.37	0.11	0.05	0.85
D3_keystone	-0.06	-0.91	-0.17		0.00	-0.38	0.87		-0.56	0.33		0.60	2.26	-0.29	0.00	-0.30	-0.05	0.10	0.77
D4_keystone	0.47	-0.92	-0.03		0.09	-1.30	1.31		0.04	0.73		0.22	1.22	0.00	1.70	-0.79	0.40	0.22	0.86
D5_square	-0.20	0.50	0.43	-0.48		-0.88	1.54	0.43				0.32				-0.62	-0.03	0.10	0.70
D6_square	-0.15	-0.27	-0.86	-0.07		-0.62	0.23	0.05				0.16				-0.59	-0.62	-0.27	0.38
Cx_square	-0.33	0.40	-0.65	-0.29		-0.51	-0.24	-0.54				-0.35				-0.48	-0.41	-0.34	0.29
Yi MAXIMUM	-1.82	2.34	2.31	-1.19	0.94	1.76	1.77	1.58	-0.56	1.41	1.46	1.28	2.45	0.40	3.75	-1.56	-1.13	-0.66	1.24
Yi MINIMUM	0.03	0.11	0.03	-0.04	0.00	-0.01	-0.06	-0.02	-0.03	0.02	-0.09	0.06	-0.03	0.00	0.00	0.03	-0.03	-0.01	0.29
Yi MEAN	-0.39	-0.17	0.10	-0.22	-0.10	-0.53	0.28	0.29	-0.04	0.03	-0.02	0.10	0.40	-0.07	0.16	-0.47	-0.02		
Yi STD	0.63	0.86	0.86	0.52	0.50	0.71	0.73	0.72	0.31	0.60	0.81	0.58	1.12	0.20	1.10	0.52	0.54		

bins	count	percent		
-3	0	0.0%		
-2	0	0.0%		
-1	20	7.1%	-1 < yi ≤ 1	82.9%
0	152	54.3%	-2 < yi ≤ 2	98.2%
1	80	28.6%	-3 < yi ≤ 3	99.6%
2	23	8.2%	>3	0.4%
3	4	1.4%		
	1	0.4%		
total	280	100.0%		



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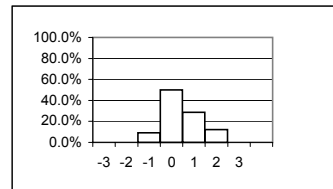
Heavy Duty Diesel Rating Workshop

Rater = HURTADO

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	1.37	-0.63	0.59	-1.19		-0.69	0.95	1.03				-1.11				0.09	0.09	0.05	0.92
A1_two-piece																			
A2_two-piece																			
A3_keystone																			
A4_keystone																			
A5_square																			
A6_square																			
B1_two-piece	0.27	0.00	0.11		-0.56	0.58	-0.18	-0.24		-0.36	-1.14	1.14	0.32	-0.26	1.43	-0.30	-0.07	0.05	0.64
B2_two-piece	-0.67	-0.06	0.13		0.12	-0.06	-0.51	-0.09		-0.68	0.40	-0.14	0.10	-0.37	0.00	-0.48	-0.30	-0.17	0.32
B3_keystone	0.47	-0.44	0.28		-0.21	0.87	-0.39		-0.31	-1.09		-1.90	-1.66	0.00	0.00	0.26	-0.33	-0.32	0.78
B4_keystone	-0.75	-0.76	0.51		-0.81	1.15	-0.15		-0.57	-0.81		1.46	0.49	0.00	0.00	0.23	-0.34	-0.02	0.73
B5_square	1.29	-0.86	0.71	0.77		-0.11	0.19	1.18				0.78				0.90	0.01	0.49	0.67
B6_square																			
C1_two-piece																			
C2_two-piece																			
C3_keystone																			
C4_keystone																			
C5_square																			
C6_square																			
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square																			
Yi MAXIMUM	1.37	-0.86	0.71	-1.19	-0.81	1.15	0.95	1.18	-0.57	-1.09	-1.14	-1.90	-1.66	-0.37	1.43	0.90	-0.34	0.49	0.92
Yi MINIMUM	0.27	0.00	0.11	0.77	0.12	-0.06	-0.15	-0.09	-0.31	-0.36	0.40	-0.14	0.10	0.00	0.00	0.09	0.01	-0.02	0.32
Yi MEAN	0.33	-0.46	0.39	-0.21	-0.37	0.29	-0.01	0.47	-0.44	-0.73	-0.37	0.04	-0.19	-0.16	0.36	0.12	-0.16		
Yi STD	0.91	0.36	0.25	1.39	0.41	0.69	0.53	0.74	0.18	0.30	1.09	1.33	0.99	0.19	0.71	0.48	0.19		

bins	count	percent		
-3	0	0.0%		
-2	0	0.0%	-1 < yi ≤ 1	78.8%
-1	6	9.1%	-2 < yi ≤ 2	100.0%
0	33	50.0%	-3 < yi ≤ 3	100.0%
1	19	28.8%	>3	0.0%
2	8	12.1%		
3	0	0.0%		
3 lt yi	0	0.0%		
total	66	100.0%		



October 20, 2002

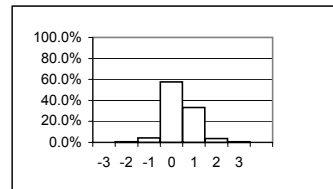
Heavy Duty Diesel Rating Workshop

Rater = **KOBRINETZ**

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD	
calibration_piston	-0.74	-0.98	0.29	0.09		-0.46	-0.31	-0.19				-0.18				-1.15	-1.15	-0.48	0.51	
A1_two-piece	0.16	0.78	-0.81		-0.64	-0.05	0.49	0.84		0.55	-0.90	0.37	-0.36	-0.25	-0.25	0.28	0.65	0.06	0.57	
A2_two-piece	-0.19	-0.06	0.37		-0.31	-0.60	0.06	1.70		0.01	0.19	0.55	-0.03	0.00	-0.27	-0.49	1.11	0.14	0.61	
A3_keystone	-0.50	0.59	0.12		0.61	-1.01	-0.70		-0.54	0.32		0.11	0.09	0.00	-0.24	-0.33	-0.38	-0.13	0.48	
A4_keystone	-2.35	-0.22	0.36		0.14	-0.96	-1.13		-0.42	0.82		1.28	0.34	-0.39	-0.72	-2.54	-0.91	-0.48	1.08	
A5_square	-1.77	-0.54	0.03	0.21		0.22	-0.38	0.08				0.87				-1.49	-0.31	-0.31	0.80	
A6_square	-0.48	-0.16	-0.36	-0.30		-0.27	-0.54	-0.47				0.84				-0.56	-0.47	-0.28	0.41	
B1_two-piece	-0.19	0.91	0.28		0.53	-0.41	0.54	0.63		1.34	-0.05	0.09	0.40	-0.26	-0.36	1.08	0.71	0.35	0.54	
B2_two-piece	-0.62	-0.44	-1.18		-0.46	-0.91	0.46	-0.28		0.49	-0.37	-0.94	-0.90	-0.37	0.00	-1.02	-0.52	-0.47	0.50	
B3_keystone	0.22	0.63	1.93		-0.30	-1.22	-1.19		-0.10	0.35		0.20	1.17	0.00	0.00	-0.56	-0.30	0.06	0.83	
B4_keystone	-0.12	-0.03	0.03		0.39	0.02	-0.69		0.16	0.21		0.01	0.49	0.00	0.00	0.10	-0.01	0.04	0.27	
B5_square	-0.57	0.15	0.71	0.77		-0.13	-0.26	0.31				-0.06				-0.50	0.22	0.06	0.46	
B6_square	-0.36	0.97	0.16	0.88		-0.44	1.52	-0.37				-0.54				0.03	0.79	0.27	0.73	
C1_two-piece	-0.81	0.16	-0.67		-0.18	-0.27	1.06	0.21		-0.80	0.33	0.30	-1.35	-0.52	-0.52	-0.65	-0.27	-0.27	0.60	
C2_two-piece	-0.31	0.74	0.23		-0.19	-0.04	1.43	0.90		-0.57	-0.97	-0.25	-0.51	0.00	0.00	-0.23	1.01	0.08	0.66	
C3_keystone	-0.86	0.30	2.04		0.67	-0.74	-1.19		-0.07	-0.06		0.43	0.56	0.00	0.00	-0.21	-0.16	0.05	0.78	
C4_keystone	-0.95	-0.86	2.33		0.86	-0.06	-2.05		0.55	-0.16		-0.55	-0.71	0.00	0.00	-0.20	-0.16	-0.14	1.00	
C5_square	-0.18	0.80	-0.86	1.24		0.08	-0.19	-0.63				-0.04				0.09	-0.10	0.02	0.61	
C6_square	-0.48	-0.04	-0.51	-0.03		-0.20	-0.05	-0.06				-0.32				-0.50	-0.36	-0.25	0.20	
D1_two-piece	-0.18	-0.57	-0.41		0.20	-0.22	1.09	0.24		-0.73	-1.23	0.08	0.25	0.00	0.00	-0.43	0.09	-0.12	0.53	
D2_two-piece	-0.37	0.67	0.25		-1.07	0.81	0.69	-0.25		-0.45	0.60	-0.04	0.00	-1.25	-0.71	-0.44	0.02	-0.10	0.64	
D3_keystone	-0.65	-0.63	0.16		0.38	-0.84	-0.41		-0.08	-0.73		-0.51	-0.74	-0.29	0.00	-0.58	-0.57	-0.39	0.37	
D4_keystone	-0.49	-0.33	-0.04		0.25	-0.98	0.52		0.36	0.34		-0.45	-0.52	0.00	-1.25	-1.00	0.00	-0.26	0.56	
D5_square	-0.75	-0.66	-0.63	-0.42		-0.91	-0.11	0.63				-0.42				-1.33	-0.92	-0.55	0.53	
D6_square	0.75	0.11	-0.64	0.64		-0.37	-0.18	-0.29				-0.52				0.24	-0.15	-0.04	0.47	
Cx_square	-0.11	0.57	-0.65	0.88		0.19	-0.24	-0.56				-0.21				0.09	-0.16	-0.02	0.47	
Yi MAXIMUM	-2.35	-0.98	2.33	1.24	-1.07	-1.22	-2.05	1.70	0.55	1.34	-1.23	1.28	-1.35	-1.25	-1.25	-2.54	-1.15	-0.55	1.08	
Yi MINIMUM	-0.11	-0.03	0.03	-0.03	0.14	0.02	-0.05	-0.06	-0.07	0.01	-0.05	0.01	0.00	0.00	0.00	0.03	0.00	-0.02	0.20	
Yi MEAN	-0.50	0.07	0.10	0.40	0.05	-0.38	-0.07	0.14	-0.02	0.06	-0.30	0.00	-0.11	-0.21	-0.27	-0.47	-0.09			
Yi STD	0.60	0.59	0.88	0.56	0.53	0.48	0.85	0.61	0.37	0.61	0.67	0.51	0.65	0.33	0.37	0.69	0.57			

bins	count	percent		
-3	0	0.0%		
-2	2	0.7%	-1 < yi ≤ 1	90.7%
-1	12	4.3%	-2 < yi ≤ 2	98.6%
0	161	57.5%	-3 < yi ≤ 3	100.0%
1	93	33.2%	>3	0.0%
2	10	3.6%		
3	2	0.7%		
3 lt yi	0	0.0%		
total	280	100.0%		



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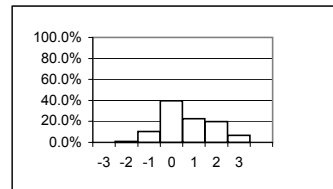
Heavy Duty Diesel Rating Workshop

Rater = LOPEZ

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-1.12	0.85	2.73	2.51		-0.58	1.06	1.32				-0.74				-0.35	-0.35	0.53	1.37
A1_two-piece	-1.05	0.70	-0.07		1.93	-0.71	0.02	1.64		-0.84	0.10	-1.39	-0.36	-0.25	-0.25	-0.24	1.21	0.03	0.96
A2_two-piece	-0.79	0.98	-0.53		1.13	0.46	-0.74	1.19		-0.06	-0.39	-0.81	-1.09	0.00	-0.27	0.42	0.38	-0.01	0.74
A3_keystone	-0.50	0.08	2.00		2.30	-0.32	1.91		2.26	1.22		-0.66	-0.19	0.00	-0.24	1.39	2.44	0.84	1.19
A4_keystone	-0.17	0.33	0.99		1.42	-0.27	1.51		1.58	0.21		-1.60	-0.83	-0.39	-0.72	0.87	1.34	0.30	1.01
A5_square	0.04	-0.30	-0.30	-0.41		1.32	-1.04	-0.51				-1.49				0.15	-0.34	-0.29	0.74
A6_square	-2.07	0.09	0.02	-0.24		0.98	0.15	-0.28				-1.47				-1.43	-0.20	-0.44	0.92
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square	0.45	0.84	-0.89	-0.83		1.16	-0.80	-1.43				-1.96				0.97	0.29	-0.22	1.10
B6_square	0.17	0.88	2.18	1.45		0.98	0.38	1.32				-1.85				1.10	1.83	0.84	1.12
C1_two-piece																			
C2_two-piece																			
C3_keystone																			
C4_keystone																			
C5_square																			
C6_square																			
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square	1.13	-0.26	-0.65	1.69		-0.78	1.90	1.44				-0.79				0.20	0.47	0.44	1.05
D6_square	0.73	1.17	2.12	2.20		0.01	0.00	-0.86				-0.86				0.96	1.59	0.71	1.11
Cx_square																			
Yi MAXIMUM	-2.07	1.17	2.73	2.51	2.30	1.32	1.91	1.64	2.26	1.22	-0.39	-1.96	-1.09	-0.39	-0.72	-1.43	2.44	0.84	1.37
Yi MINIMUM	0.04	0.08	0.02	-0.24	1.13	0.01	0.00	-0.28	1.58	-0.06	0.10	-0.66	-0.19	0.00	-0.24	0.15	-0.20	-0.01	0.74
Yi MEAN	-0.29	0.49	0.69	0.91	1.70	0.20	0.40	0.42	1.92	0.13	-0.14	-1.24	-0.62	-0.16	-0.37	0.37	0.79		
Yi STD	0.93	0.52	1.34	1.37	0.52	0.80	1.07	1.18	0.49	0.85	0.35	0.48	0.42	0.19	0.23	0.82	0.95		

bins	count	percent		
-3	0	0.0%		
-2	1	0.9%	-1 < yi ≤ 1	62.3%
-1	11	10.4%	-2 < yi ≤ 2	92.5%
0	42	39.6%	-3 < yi ≤ 3	100.0%
1	24	22.6%	>3	0.0%
2	21	19.8%		
3	7	6.6%		
3 lt yi	0	0.0%		
total	106	100.0%		



October 20, 2002

Heavy Duty Diesel Rating Workshop

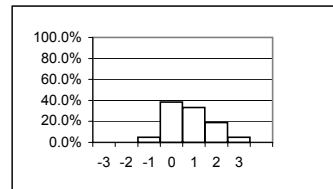
Rater = LOVE

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	0.88	1.56	-0.11	0.78		-0.42	-0.29	0.22				1.11				0.93	0.93	0.56	0.66
A1_two-piece	0.85	0.88	-0.46		0.60	-1.04	-1.03	0.24		0.89	-0.54	1.26	2.70	-0.25	-0.25	1.41	0.08	0.36	1.01
A2_two-piece	0.24	0.42	-0.77		1.11	0.33	-1.38	-0.17		-0.12	-0.04	1.71	2.09	0.00	-0.27	1.02	-0.76	0.23	0.94
A3_keystone	1.41	0.32	-0.52		-0.13	0.16	-0.44		0.71	-0.62		2.66	2.37	0.00	-0.24	0.69	0.10	0.46	1.03
A4_keystone	0.11	1.43	-0.98		0.49	0.72	-0.56		0.22	-0.03		-0.22	1.51	-0.39	-0.72	1.00	-0.01	0.18	0.77
A5_square	0.16	1.14	0.03	0.21		0.45	-0.06	0.08				1.09				0.57	0.55	0.42	0.42
A6_square	0.27	1.37	0.25	0.55		0.71	-0.03	0.42				0.96				0.55	0.54	0.56	0.39
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square																			
B6_square																			
C1_two-piece	1.95	-0.25	-1.17		0.58	-0.44	-0.37	-0.61		-0.67	-0.42	1.85	0.49	0.63	-0.52	1.22	0.03	0.15	0.94
C2_two-piece	1.13	0.54	-1.53		0.79	-0.34	0.23	-0.55		0.20	-0.52	2.11	2.05	0.00	0.00	0.97	-0.46	0.31	0.99
C3_keystone	1.92	-1.27	-0.32		-0.44	-0.51	-0.23		0.86	-0.20		2.51	-0.78	0.00	0.00	-0.44	-0.10	0.07	1.03
C4_keystone	1.36	0.66	-1.05		-0.01	0.69	-0.69		1.96	-0.27		1.64	1.38	0.00	0.00	0.86	0.06	0.47	0.90
C5_square	0.47	1.50	-0.49	1.24		1.27	-0.27	-0.50				1.43				1.46	0.49	0.66	0.83
C6_square	0.52	1.11	1.29	0.66		0.37	0.45	0.59				0.38				0.75	1.40	0.75	0.38
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square	0.51	1.14	0.12	0.88		1.28	-0.31	-0.46				1.04				1.35	0.31	0.59	0.66
Yi MAXIMUM	1.95	1.56	-1.53	1.24	1.11	1.28	-1.38	-0.61	1.96	0.89	-0.54	2.66	2.70	0.63	-0.72	1.46	1.40	0.75	1.03
Yi MINIMUM	0.11	-0.25	0.03	0.21	-0.01	0.16	-0.03	0.08	0.22	-0.03	-0.04	-0.22	0.49	0.00	0.00	-0.44	-0.01	0.07	0.38
Yi MEAN	0.84	0.75	-0.41	0.72	0.37	0.23	-0.36	-0.07	0.94	-0.10	-0.38	1.39	1.48	0.00	-0.25	0.88	0.23		
Yi STD	0.63	0.78	0.71	0.34	0.52	0.69	0.47	0.44	0.73	0.49	0.23	0.78	1.14	0.30	0.26	0.48	0.54		

bins	count	percent
-3	0	0.0%
-2	0	0.0%
-1	7	4.7%
0	57	38.5%
1	49	33.1%
2	28	18.9%
3	7	4.7%
total	148	100.0%

-1 < yi ≤ 1	71.6%
-2 < yi ≤ 2	95.3%
-3 < yi ≤ 3	100.0%
>3	0.0%



October 20, 2002

Heavy Duty Diesel Rating Workshop

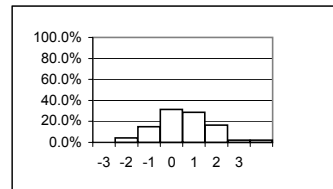
Rater = MACH

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	1.80	-1.99	0.64	0.39		0.37	1.00	1.42				-1.84				0.39	0.39	0.26	1.24
A1_two-piece	3.01	-1.68	0.15		-0.38	-0.88	-0.75	1.09		-0.75	-1.45	-0.15	-1.12	3.75	-0.25	1.23	0.99	0.19	1.57
A2_two-piece	3.66	-2.89	-1.03		-0.21	-1.45	-1.18	1.19		0.12	-0.40	-0.03	-1.09	0.00	0.24	1.71	0.34	-0.07	1.52
A3_keystone	2.82	0.32	-1.01		-0.65	1.05	-0.44		-0.23	0.25		-1.17	-1.05	0.00	-0.24	1.54	0.04	0.09	1.10
A4_keystone	0.98	-0.87	0.95		-1.55	-0.96	-0.19		0.41	-1.17		-1.05	-0.83	0.39	0.90	-0.50	0.03	-0.25	0.86
A5_square	1.45	-0.18	-0.19	0.34		-2.10	1.64	0.31				-0.63				0.69	0.12	0.14	1.06
A6_square	0.37	-0.54	0.19	0.14		-2.72	1.60	1.40				0.35				-0.22	0.38	0.10	1.18
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square																			
B6_square																			
C1_two-piece																			
C2_two-piece																			
C3_keystone																			
C4_keystone																			
C5_square																			
C6_square																			
D1_two-piece	2.12	0.72	1.80		0.54	-2.28	-0.87	1.20		-0.94	0.17	0.78	-1.09	0.00	0.00	0.64	0.85	0.24	1.16
D2_two-piece	0.44	-1.65	-0.71		0.51	-0.96	-0.65	0.09		-0.14	0.98	0.69	-1.22	0.60	1.66	0.31	-0.35	-0.03	0.90
D3_keystone	0.27	-0.55	-0.49		-1.28	1.58	1.13		-0.87	-1.85		2.26	-0.33	-0.29	0.00	0.09	-0.50	-0.06	1.10
D4_keystone	0.91	1.64	-0.65		-1.07	1.19	0.24		-0.49	-2.74		0.22	0.70	0.00	-0.02	1.28	-0.77	0.03	1.15
D5_square	1.17	1.20	1.31	1.20		-0.53	1.42	1.09				0.32				0.77	1.32	0.93	0.60
D6_square	0.93	-2.44	0.87	0.38		-0.88	-0.18	0.82				0.16				-0.75	-1.23	-0.23	1.09
Cx_square																			
Yi MAXIMUM	3.66	-2.89	1.80	1.20	-1.55	-2.72	1.64	1.42	-0.87	-2.74	-1.45	2.26	-1.22	3.75	1.66	1.71	1.32	0.93	1.57
Yi MINIMUM	0.27	-0.18	0.15	0.14	-0.21	0.37	-0.18	0.09	-0.23	0.12	0.17	-0.03	-0.33	0.00	0.00	0.09	0.03	-0.03	0.60
Yi MEAN	1.53	-0.69	0.14	0.49	-0.51	-0.66	0.21	0.96	-0.30	-0.90	-0.17	-0.01	-0.75	0.56	0.29	0.55	0.12		
Yi STD	1.08	1.41	0.92	0.41	0.78	1.36	1.02	0.47	0.54	1.02	1.02	1.03	0.65	1.32	0.66	0.77	0.72		

bins	count	percent
-3	0	0.0%
-2	6	4.3%
-1	21	15.0%
0	44	31.4%
1	40	28.6%
2	23	16.4%
3	3	2.1%
total	140	100.0%

-1 < yi ≤ 1	60.0%
-2 < yi ≤ 2	91.4%
-3 < yi ≤ 3	97.9%
>3	2.1%



October 20, 2002

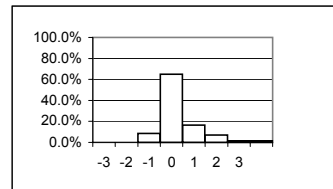
Heavy Duty Diesel Rating Workshop

Rater = MAY

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.36	-0.16	0.68	1.87		-0.52	-0.63	-0.10				0.00				-0.59	-0.59	-0.04	0.78
A1_two-piece	-0.54	1.54	-0.69		-1.02	3.07	-0.68	0.04		-1.18	1.78	-1.21	1.17	-0.25	-0.25	0.53	-0.03	0.15	1.24
A2_two-piece	-0.52	0.39	0.87		-0.06	0.92	-0.53	-0.09		-1.93	2.53	-0.62	-0.03	0.00	-0.27	-0.18	0.03	0.03	0.96
A3_keystone	-0.40	0.05	-1.41		-0.27	-0.67	-0.70		-0.73	-0.74		-0.40	0.09	0.00	-0.24	-0.92	-1.16	-0.53	0.45
A4_keystone	0.07	0.05	-0.61		-0.23	-0.96	0.20		-0.68	-0.76		1.83	-0.83	-0.39	-0.72	-0.39	-0.51	-0.28	0.70
A5_square	-1.24	-0.78	-0.50	-0.50		-0.19	-0.67	-0.24				1.52				-1.31	-0.78	-0.47	0.79
A6_square	-0.57	-0.32	-0.12	0.05		-0.19	-0.34	-0.16				1.20				-0.57	-0.21	-0.12	0.50
B1_two-piece	-0.19	0.60	-1.22		-0.64	1.09	0.97	-0.36		-0.05	0.57	-0.91	-0.26	-0.26	3.21	0.10	-0.09	0.17	1.06
B2_two-piece	-0.35	0.44	-1.65		-0.84	1.07	-0.34	-0.56		-0.43	1.41	-0.62	0.01	-0.37	0.00	-0.24	-0.65	-0.21	0.75
B3_keystone	-0.60	-0.20	-0.37		-0.67	-0.54	-0.94		-0.44	-0.42		-0.22	0.28	0.00	0.00	-1.01	-1.01	-0.44	0.39
B4_keystone	-0.54	-0.51	-0.48		-0.99	-0.28	-0.77		-0.38	-0.52		-0.76	0.68	0.00	0.00	-0.96	-0.75	-0.45	0.45
B5_square	-0.27	0.02	-0.98	-1.11		0.14	-0.55	-1.26				2.09				-0.30	-0.69	-0.29	0.96
B6_square	0.58	0.74	0.25	-0.45		-0.59	-1.15	-1.25				-0.17				0.47	-0.33	-0.19	0.70
C1_two-piece																			
C2_two-piece																			
C3_keystone																			
C4_keystone																			
C5_square																			
C6_square																			
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square																			
Yi MAXIMUM	-1.24	1.54	-1.65	1.87	-1.02	3.07	-1.15	-1.26	-0.73	-1.93	2.53	2.09	1.17	-0.39	3.21	-1.31	-1.16	-0.53	1.24
Yi MINIMUM	0.07	0.02	-0.12	0.05	-0.06	0.14	0.20	0.04	-0.38	-0.05	0.57	0.00	0.01	0.00	0.00	0.10	-0.03	0.03	0.39
Yi MEAN	-0.38	0.14	-0.48	-0.03	-0.59	0.18	-0.47	-0.44	-0.55	-0.75	1.57	0.13	0.14	-0.16	0.22	-0.41	-0.52		
Yi STD	0.41	0.60	0.76	1.14	0.36	1.10	0.54	0.49	0.17	0.58	0.81	1.12	0.60	0.18	1.23	0.56	0.38		

bins	count	percent		
-3	0	0.0%		
-2	0	0.0%		
-1	12	8.6%	-1 < yi ≤ 1	81.4%
0	91	65.0%	-2 < yi ≤ 2	97.1%
1	23	16.4%	-3 < yi ≤ 3	98.6%
2	10	7.1%	>3	1.4%
3	2	1.4%		
3 lt yi	2	1.4%		
total	140	100.0%		



October 20, 2002

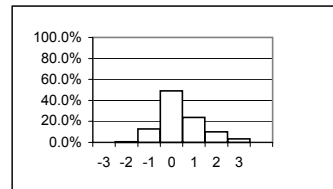
Heavy Duty Diesel Rating Workshop

Rater = PLAIZIER

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	0.66	0.73	-1.09	-1.19		1.75	0.21	-0.33				2.21				1.75	1.75	0.65	1.23
A1_two-piece	-0.54	-1.33	0.23		0.31	-0.50	-0.80	-0.57		1.59	0.36	1.43	-1.12	-0.25	-0.25	-0.56	-0.81	-0.19	0.84
A2_two-piece	0.08	0.14	0.11		0.06	2.58	-0.50	-1.14		0.91	-0.49	0.55	-0.03	0.00	-0.27	1.18	-0.27	0.19	0.87
A3_keystone	-0.90	-0.04	1.09		-0.92	0.42	-1.97		-0.69	-0.62		-0.66	0.09	0.00	-0.24	-0.89	-0.98	-0.45	0.74
A4_keystone	-0.45	-0.89	0.92		-0.78	2.29	-0.35		-0.83	-0.56		-1.60	-0.24	-0.39	-0.72	-0.60	-0.51	-0.34	0.92
A5_square	0.20	-1.20	-0.63	-0.62		-1.71	-0.32	-0.32				-0.63				-0.64	-0.99	-0.69	0.53
A6_square	-0.29	-1.02	-0.60	-0.66		-0.79	-0.43	-0.28				-2.08				-0.61	-0.69	-0.75	0.52
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square																			
B6_square																			
C1_two-piece																			
C2_two-piece																			
C3_keystone	-0.81	1.52	-0.27		-1.35	-0.35	-0.60		-0.48	-0.06		-0.88	1.09	0.00	0.00	0.23	-0.29	-0.16	0.75
C4_keystone																			
C5_square	-0.84	-0.28	2.12	-1.33		-1.20	-0.28	-0.16				-0.53				-1.38	-0.44	-0.43	1.01
C6_square																			
D1_two-piece	1.37	0.06	1.35		-0.71	1.11	-1.47	-1.37		1.74	0.60	2.05	1.58	0.00	0.00	1.32	0.19	0.52	1.11
D2_two-piece																			
D3_keystone	-0.65	0.56	1.59		-1.32	0.08	0.04		-0.45	0.76		0.05	0.08	-0.29	0.00	-0.84	0.11	-0.02	0.71
D4_keystone	-0.11	-0.09	0.31		-1.60	0.18	0.31		-0.58	0.28		1.12	-0.17	0.00	0.47	-0.66	-0.19	-0.05	0.63
D5_square	-0.78	-0.89	-1.40	-0.22		-0.08	0.05	1.50				-1.16				-0.75	-0.40	-0.41	0.82
D6_square	-0.26	0.02	-0.43	0.25		0.04	0.15	1.53				0.84				-0.06	0.43	0.25	0.57
Cx_square																			
Yi MAXIMUM	1.37	1.52	2.12	-1.33	-1.60	2.58	-1.97	1.53	-0.83	1.74	0.60	2.21	1.58	-0.39	-0.72	1.75	1.75	-0.75	1.23
Yi MINIMUM	0.08	0.02	0.11	-0.22	0.06	0.04	0.04	-0.16	-0.45	-0.06	0.36	0.05	-0.03	0.00	0.00	-0.06	0.11	-0.02	0.52
Yi MEAN	-0.24	-0.19	0.23	-0.63	-0.79	0.27	-0.42	-0.13	-0.61	0.50	0.16	0.05	0.16	-0.12	-0.13	-0.18	-0.22		
Yi STD	0.65	0.81	1.05	0.59	0.68	1.26	0.64	1.02	0.16	0.90	0.58	1.34	0.83	0.16	0.34	0.95	0.71		

bins	count	percent		
-3	0	0.0%		
-2	1	0.7%	-1 < yi ≤ 1	72.8%
-1	19	12.9%	-2 < yi ≤ 2	95.9%
0	72	49.0%	-3 < yi ≤ 3	100.0%
1	35	23.8%	>3	0.0%
2	15	10.2%		
3	5	3.4%		
3 lt yi	0	0.0%		
total	147	100.0%		



October 20, 2002

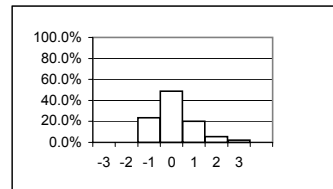
Heavy Duty Diesel Rating Workshop

Rater = POZZI

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	0.39	-1.20	-0.85	-0.95		-0.26	-0.10	0.57				0.55				-0.52	-0.52	-0.29	0.63
A1_two-piece																			
A2_two-piece																			
A3_keystone																			
A4_keystone																			
A5_square																			
A6_square																			
B1_two-piece	-0.12	-1.35	-0.18		0.29	-0.24	-1.78	0.03		-0.05	-0.56	-1.32	-0.92	-0.26	-0.36	-0.47	-0.55	-0.52	0.58
B2_two-piece	1.09	-1.30	0.88		0.69	-0.69	-0.86	0.02		1.07	1.27	2.47	-0.29	-0.37	0.00	0.87	-0.11	0.32	0.99
B3_keystone	-1.75	0.31	-0.73		-1.42	-0.15	-0.56		-0.56	0.38		-0.22	-0.91	0.00	0.00	-1.13	-0.86	-0.54	0.64
B4_keystone	-0.19	0.73	0.15		-1.27	-0.73	2.40		-0.39	0.41		0.01	-1.25	0.00	0.00	-0.75	0.32	-0.04	0.92
B5_square	-0.18	-1.88	-1.17	-1.11		-1.55	-0.32	-1.22				-0.53				-1.42	-2.47	-1.18	0.71
B6_square	0.59	-1.50	-0.13	-0.90		-1.91	0.20	0.16				-0.91				-0.50	-0.92	-0.58	0.79
C1_two-piece																			
C2_two-piece																			
C3_keystone																			
C4_keystone																			
C5_square																			
C6_square																			
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square	1.24	-0.88	-1.57	-1.72		-0.82	-0.81	-1.07				1.06				-0.14	-1.64	-0.63	1.06
D6_square	0.49	-0.12	-1.06	0.00		-0.88	-0.39	-0.71				-1.54				-0.38	-0.94	-0.55	0.59
Cx_square																			
Yi MAXIMUM	-1.75	-1.88	-1.57	-1.72	-1.42	-1.91	2.40	-1.22	-0.56	1.07	1.27	2.47	-1.25	-0.37	-0.36	-1.42	-2.47	-1.18	1.06
Yi MINIMUM	-0.12	-0.12	-0.13	0.00	0.29	-0.15	-0.10	0.02	-0.39	-0.05	-0.56	0.01	-0.29	0.00	0.00	-0.14	-0.11	-0.04	0.58
Yi MEAN	0.17	-0.80	-0.52	-0.93	-0.43	-0.80	-0.25	-0.32	-0.48	0.45	0.36	-0.05	-0.84	-0.16	-0.09	-0.49	-0.85		
Yi STD	0.89	0.90	0.76	0.61	1.07	0.59	1.14	0.68	0.12	0.46	1.30	1.26	0.40	0.19	0.18	0.65	0.82		

bins	count	percent		
-3	0	0.0%		
-2	0	0.0%		
-1	21	23.3%	-1 < yi ≤ 1	68.9%
0	44	48.9%	-2 < yi ≤ 2	97.8%
1	18	20.0%	-3 < yi ≤ 3	100.0%
2	5	5.6%	>3	0.0%
3	2	2.2%		
3 lt yi	0	0.0%		
total	90	100.0%		



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Heavy Duty Diesel Rating Workshop

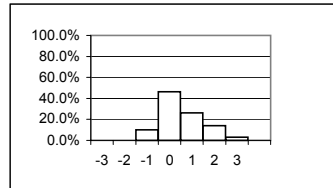
Rater = RANSFORD

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD	
calibration_piston	1.50	0.12	-0.89	-1.00		0.81	1.03	-0.49				1.57				1.35	1.35	0.53	1.01	
A1_two-piece																				
A2_two-piece																				
A3_keystone																				
A4_keystone																				
A5_square																				
A6_square																				
B1_two-piece	-0.50	0.02	0.02		-0.74	-0.79	0.54	-0.95		-0.17	-0.39	-1.12	0.40	-0.26	-0.36	-1.17	-0.85	-0.42	0.52	
B2_two-piece																				
B3_keystone	1.89	-0.70	-0.24		-0.55	0.21	-0.30		-0.48	0.92		0.20	0.28	0.00	0.00	0.06	-0.27	0.07	0.67	
B4_keystone																				
B5_square																				
B6_square																				
C1_two-piece	-0.12	2.50	1.03		-0.53	1.41	0.85	1.03		0.38	1.40	-0.42	1.41	-0.75	1.14	0.53	1.52	0.76	0.90	
C2_two-piece	-0.59	1.55	-0.75		-0.53	0.21	-0.67	-0.26		1.90	2.17	0.37	0.77	0.00	0.00	0.41	-0.42	0.28	0.94	
C3_keystone	1.79	-1.08	0.05		-1.02	-0.31	2.51		-0.16	-1.27		0.95	-0.37	0.00	0.00	-0.35	0.68	0.10	1.07	
C4_keystone	0.57	0.73	0.50		-1.87	-1.33	0.17		-1.86	1.47		0.18	0.05	0.00	0.00	-1.27	-0.22	-0.21	1.00	
C5_square	-0.75	-0.19	0.59	0.34		0.28	-0.17	-0.58				-0.85				-0.73	-0.40	-0.25	0.51	
C6_square	-0.83	-1.12	-0.24	-1.05		-0.31	-0.66	-1.07				-0.67				-0.99	-1.62	-0.85	0.41	
D1_two-piece																				
D2_two-piece																				
D3_keystone																				
D4_keystone																				
D5_square																				
D6_square																				
Cx_square																				
Yi MAXIMUM	1.89	2.50	1.03	-1.05	-1.87	1.41	2.51	-1.07	-1.86	1.90	2.17	1.57	1.41	-0.75	1.14	1.35	-1.62	-0.85	1.07	
Yi MINIMUM	-0.12	0.02	0.02	0.34	-0.53	0.21	0.17	-0.26	-0.16	-0.17	-0.39	0.18	0.05	0.00	0.00	0.06	-0.22	0.07	0.41	
Yi MEAN	0.33	0.20	0.01	-0.57	-0.87	0.02	0.36	-0.38	-0.83	0.54	1.06	0.02	0.42	-0.17	0.13	-0.24	-0.03			
Yi STD	1.13	1.21	0.63	0.79	0.52	0.82	1.01	0.75	0.90	1.15	1.31	0.88	0.61	0.30	0.52	0.89	1.02			

bins	count	percent
-3	0	0.0%
-2	0	0.0%
-1	10	10.1%
0	46	46.5%
1	26	26.3%
2	14	14.1%
3	3	3.0%
total	99	100.0%

-1 < yi ≤ 1	72.7%
-2 < yi ≤ 2	97.0%
-3 < yi ≤ 3	100.0%
>3	0.0%



October 20, 2002

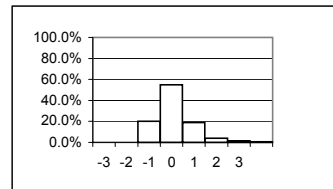
Heavy Duty Diesel Rating Workshop

Rater = RODRIGUEZ

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-1.39	0.88	0.39	-0.01		-0.61	0.16	0.41				0.37				-0.67	-0.67	-0.11	0.69
A1_two-piece	-0.92	1.38	-1.16		-0.26	-0.16	-0.98	-0.66		0.03	0.88	-1.39	-0.36	-0.25	-0.25	-0.60	-1.13	-0.39	0.75
A2_two-piece	0.41	1.17	0.37		-1.12	0.38	0.53	-0.05		0.58	0.66	-1.00	-0.56	0.00	-0.27	0.38	0.78	0.15	0.65
A3_keystone	-1.21	0.32	1.57		-0.54	-0.23	-0.21		-0.50	-1.07		-1.93	-1.90	0.00	-0.24	-0.98	-0.46	-0.53	0.90
A4_keystone	-0.29	0.94	-0.09		0.74	0.35	-0.53		-0.61	-1.06		-0.36	-0.83	2.70	2.53	0.44	-0.48	0.25	1.16
A5_square	-1.47	0.74	-0.41	-0.20		-0.58	-0.80	-0.71				0.01				-1.14	-0.26	-0.48	0.62
A6_square	-0.42	0.49	-0.57	-0.35		0.10	-0.79	-0.75				-0.98				-0.41	-0.53	-0.42	0.43
B1_two-piece	0.10	2.57	-0.41		-0.55	-0.09	-1.10	-0.51		1.32	-0.44	-1.32	-1.25	-0.26	-0.36	0.88	-0.17	-0.11	1.02
B2_two-piece	-0.14	1.11	-0.07		-0.19	-0.39	-0.52	-0.90		0.49	0.45	-1.27	-0.29	3.08	0.00	0.14	-0.55	0.06	1.02
B3_keystone	-1.42	-0.24	-0.58		0.05	-1.13	0.33		-0.18	-1.09		-1.06	-1.06	0.00	0.00	-1.09	-0.31	-0.56	0.57
B4_keystone	-0.73	1.20	-0.64		-0.84	-0.73	-0.92		-0.19	-0.78		-1.28	-0.87	0.00	0.00	-0.82	-0.71	-0.52	0.61
B5_square	-1.39	0.39	-0.23	-0.17		-0.43	-0.82	-0.56				-1.49				-1.34	-0.40	-0.64	0.61
B6_square	-1.22	0.77	-0.82	-0.45		0.00	-1.48	-1.60				-1.29				-1.25	-0.83	-0.82	0.74
C1_two-piece																			
C2_two-piece																			
C3_keystone	-0.91	-1.34	-0.29		-0.30	-0.62	-0.69		-0.12	1.19		-1.14	-1.59	0.00	0.00	-1.73	-0.92	-0.60	0.77
C4_keystone	-1.09	0.61	-0.11		-0.32	-1.23	0.09		-0.59	0.21		-1.28	-0.71	0.00	0.00	-1.30	-0.57	-0.45	0.62
C5_square	-0.69	0.69	-0.78	-0.04		0.09	-0.47	-0.69				-0.36				-0.52	-0.54	-0.33	0.46
C6_square	-1.29	0.68	-0.65	-0.71		-0.01	-1.07	-0.97				-1.19				-1.11	-1.03	-0.73	0.62
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square																			
Yi MAXIMUM	-1.47	2.57	1.57	-0.71	-1.12	-1.23	-1.48	-1.60	-0.61	1.32	0.88	-1.93	-1.90	3.08	2.53	-1.73	-1.13	-0.82	1.16
Yi MINIMUM	0.10	-0.24	-0.07	-0.01	0.05	0.00	0.09	-0.05	-0.12	0.03	-0.44	0.01	-0.29	0.00	0.00	0.14	-0.17	0.06	0.43
Yi MEAN	-0.83	0.73	-0.26	-0.28	-0.33	-0.31	-0.55	-0.64	-0.36	-0.02	0.39	-1.00	-0.94	0.53	0.14	-0.65	-0.52		
Yi STD	0.58	0.79	0.62	0.25	0.50	0.47	0.56	0.51	0.22	0.93	0.58	0.58	0.52	1.25	0.85	0.73	0.42		

bins	count	percent		
-3	0	0.0%		
-2	0	0.0%	-1 < yi ≤ 1	73.9%
-1	36	20.0%	-2 < yi ≤ 2	97.8%
0	99	55.0%	-3 < yi ≤ 3	99.4%
1	34	18.9%	>3	0.6%
2	7	3.9%		
3	3	1.7%		
3 lt yi	1	0.6%		
total	180	100.0%		



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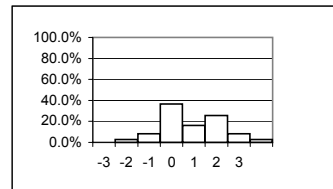
Heavy Duty Diesel Rating Workshop

Rater = SANCHEZ

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD	
calibration_piston	1.42	0.24	1.38	-0.21		2.30	-0.91	-2.12				1.47				2.19	2.19	0.79	1.49	
A1_two-piece																				
A2_two-piece																				
A3_keystone																				
A4_keystone																				
A5_square																				
A6_square																				
B1_two-piece																				
B2_two-piece																				
B3_keystone																				
B4_keystone																				
B5_square																				
B6_square																				
C1_two-piece																				
C2_two-piece																				
C3_keystone																				
C4_keystone																				
C5_square																				
C6_square																				
D1_two-piece	1.53	0.69	0.49		-0.38	0.58	-0.49	1.23		1.41	1.56	0.20	-0.20	0.00	0.00	1.55	1.44	0.64	0.76	
D2_two-piece	1.64	1.09	1.03		2.00	-0.58	-0.16	-0.12		0.31	-0.66	-0.40	0.00	1.21	-0.71	1.82	0.89	0.49	0.94	
D3_keystone	1.45	1.87	-0.49		-0.38	2.05	-1.02		-0.40	0.12		-0.51	-1.01	3.18	0.00	1.56	0.08	0.46	1.31	
D4_keystone	1.01	-0.06	2.61		-1.00	1.98	-0.75		-1.47	0.17		1.80	-1.57	0.00	-1.25	1.80	1.37	0.33	1.42	
D5_square	1.44	2.71	1.04	0.94		2.16	-0.23	-2.01				-0.79				3.16	2.43	1.09	1.66	
D6_square	0.79	-0.14	0.97	0.90		3.17	-1.60	-0.77				1.51				2.33	1.14	0.83	1.40	
Cx_square																				
Yi MAXIMUM	1.64	2.71	2.61	0.94	2.00	3.17	-1.60	-2.12	-1.47	1.41	1.56	1.80	-1.57	3.18	-1.25	3.16	2.43	1.09	1.66	
Yi MINIMUM	0.79	-0.06	-0.49	-0.21	-0.38	0.58	-0.16	-0.12	-0.40	0.12	-0.66	0.20	0.00	0.00	0.00	1.55	0.08	0.33	0.76	
Yi MEAN	1.33	0.91	1.00	0.55	0.06	1.66	-0.74	-0.76	-0.94	0.50	0.45	0.47	-0.70	1.10	-0.49	2.06	1.36			
Yi STD	0.31	1.06	0.93	0.65	1.33	1.25	0.50	1.40	0.76	0.61	1.57	1.10	0.73	1.50	0.61	0.57	0.79			

bins	count	percent		
-3	0	0.0%		
-2	2	2.7%	-1 < yi ≤ 1	52.7%
-1	6	8.1%	-2 < yi ≤ 2	86.5%
0	27	36.5%	-3 < yi ≤ 3	97.3%
1	12	16.2%	>3	2.7%
2	19	25.7%		
3	6	8.1%		
3 lt yi le 3	2	2.7%		
total	74	100.0%		



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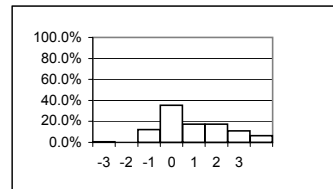
Heavy Duty Diesel Rating Workshop

Rater = SMITH

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.63	2.07	-0.85	-1.19		-0.76	-3.51	-0.81				-1.47				-0.09	-0.09	-0.73	1.38
A1_two-piece	-0.03	-0.57	1.45		-0.64	-0.14	1.60	-1.47		0.89	1.14	-1.57	-0.36	-0.25	-0.25	0.35	-0.47	-0.02	0.95
A2_two-piece	-0.30	0.44	1.88		-0.75	-0.07	0.68	0.53		1.57	1.84	-1.00	1.03	0.00	-0.27	0.17	1.49	0.48	0.92
A3_keystone	1.21	0.32	-0.93		-0.25	0.75	1.64		2.45	0.21		0.62	0.66	0.00	-0.24	1.12	1.63	0.66	0.90
A4_keystone	1.46	0.96	2.03		-0.67	1.43	2.95		2.70	1.26		0.05	0.05	-0.39	1.71	2.19	2.91	1.33	1.20
A5_square	0.89	1.61	3.75	3.56		1.51	2.18	3.23				-1.06				2.00	3.38	2.10	1.49
A6_square	2.04	2.13	3.60	3.69		0.81	3.66	3.55				-0.01				2.77	3.87	2.61	1.35
B1_two-piece	1.78	-0.23	1.40		-0.28	1.80	0.18	2.55		-0.84	-0.38	-0.31	-1.25	-0.26	-0.36	1.14	2.45	0.49	1.24
B2_two-piece	2.66	0.37	0.40		-0.60	0.24	0.47	-0.12		-1.18	-0.77	-0.29	-0.59	-0.37	0.00	0.58	0.48	0.09	0.89
B3_keystone	0.87	2.65	2.96		-0.56	1.94	0.71		3.57	2.11		-0.64	-0.91	0.00	0.00	2.62	2.99	1.31	1.56
B4_keystone	1.27	-1.52	3.12		-0.55	1.66	2.29		3.08	2.53		-1.54	-1.45	0.00	0.00	1.55	3.29	0.98	1.80
B5_square	0.90	0.67	-0.98	-0.92		1.83	1.22	-0.04				1.14				1.68	1.06	0.66	0.99
B6_square	-0.11	0.23	2.60	2.91		2.00	1.52	1.71				-1.10				1.11	2.61	1.35	1.32
C1_two-piece																			
C2_two-piece																			
C3_keystone	0.61	1.03	2.21		-0.91	2.73	1.63		3.54	-0.33		-0.88	0.80	0.00	0.00	1.94	3.06	1.10	1.45
C4_keystone																			
C5_square	0.46	-1.21	0.85	-0.04		1.52	-0.19	0.24				-1.18				0.38	-0.23	0.06	0.84
C6_square																			
D1_two-piece	-0.88	-1.02	-1.54		-1.63	-0.59	-1.20	0.12		-1.15	-1.01	-1.31	-0.65	0.00	0.00	-1.71	-1.55	-0.94	0.61
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square																			
Yi MAXIMUM	2.66	2.65	3.75	3.69	-1.63	2.73	3.66	3.55	3.57	2.53	1.84	-1.57	-1.45	-0.39	1.71	2.77	3.87	2.61	1.80
Yi MINIMUM	-0.03	-0.23	0.40	-0.04	-0.25	-0.07	0.18	-0.04	2.45	0.21	-0.38	-0.01	0.05	0.00	0.00	-0.09	-0.09	-0.02	0.61
Yi MEAN	0.76	0.50	1.37	1.33	-0.68	1.04	0.99	0.86	3.07	0.51	0.17	-0.66	-0.27	-0.13	0.06	1.11	1.68		
Yi STD	0.98	1.23	1.72	2.29	0.39	1.04	1.69	1.66	0.50	1.36	1.25	0.80	0.87	0.17	0.60	1.15	1.64		

bins	count	percent		
-3	1	0.6%		
-2	0	0.0%	-1 < yi ≤ 1	52.6%
-1	21	12.1%	-2 < yi ≤ 2	82.1%
0	61	35.3%	-3 < yi ≤ 3	93.1%
1	30	17.3%	>3	6.9%
2	30	17.3%		
3	19	11.0%		
3 lt yi	11	6.4%		
total	173	100.0%		



October 20, 2002

Heavy Duty Diesel Rating Workshop

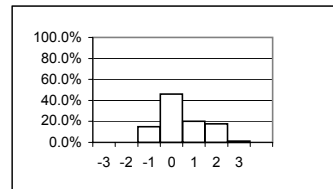
Rater = SOZZI

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	1.31	-1.09	-0.77	-1.19		1.74	-0.53	-0.49				-0.37				1.20	1.20	0.10	1.12
A1_two-piece	-0.35	-0.79	0.29		-1.26	0.10	-0.19	-0.54		1.59	1.78	0.90	-1.12	-0.25	-0.25	-0.06	-0.52	-0.04	0.88
A2_two-piece	-0.33	0.20	1.54		-1.28	-1.26	0.84	-1.37		1.43	0.89	0.55	-1.62	0.00	-0.27	-1.04	-0.40	-0.14	1.04
A3_keystone	0.41	0.16	-0.54		-0.86	0.65	-0.35		-0.76	1.69		0.62	-0.48	0.00	-0.24	0.14	-0.04	0.03	0.67
A4_keystone	0.59	1.03	1.61		-1.32	-0.37	0.20		1.48	1.09		-0.22	-1.12	-0.39	-0.72	0.28	1.22	0.24	0.96
A5_square	-0.16	-0.16	0.25	-0.58		-0.10	2.02	1.44				-0.63				-0.07	0.23	0.22	0.85
A6_square	0.43	-0.35	1.16	-0.71		-1.15	-0.42	-0.24				-0.26				0.03	-0.20	-0.17	0.63
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square																			
B6_square																			
C1_two-piece																			
C2_two-piece																			
C3_keystone																			
C4_keystone																			
C5_square																			
C6_square																			
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square																			
Yi MAXIMUM	1.31	-1.09	1.61	-1.19	-1.32	1.74	2.02	1.44	1.48	1.69	1.78	0.90	-1.62	-0.39	-0.72	1.20	1.22	0.24	1.12
Yi MINIMUM	-0.16	-0.16	0.25	-0.58	-0.86	0.10	-0.19	-0.24	-0.76	1.09	0.89	-0.22	-0.48	0.00	-0.24	0.03	-0.04	0.03	0.63
Yi MEAN	0.27	-0.14	0.50	-0.83	-1.18	-0.06	0.22	-0.24	0.36	1.45	1.34	0.08	-1.08	-0.16	-0.37	0.07	0.21		
Yi STD	0.60	0.70	0.96	0.32	0.21	1.04	0.92	1.03	1.59	0.26	0.63	0.59	0.47	0.19	0.23	0.66	0.72		

bins	count	percent
-3	0	0.0%
-2	0	0.0%
-1	11	14.9%
0	34	45.9%
1	15	20.3%
2	13	17.6%
3	1	1.4%
total	74	100.0%

-1 < yi ≤ 1	66.2%
-2 < yi ≤ 2	98.6%
-3 < yi ≤ 3	100.0%
>3	0.0%



October 20, 2002

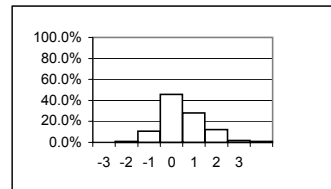
Heavy Duty Diesel Rating Workshop

Rater = TSCHIRHART

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-1.33	-2.26	-0.60	-0.21		0.50	-0.11	0.80				-0.55				-1.42	-1.42	-0.66	0.95
A1_two-piece																			
A2_two-piece																			
A3_keystone																			
A4_keystone																			
A5_square																			
A6_square																			
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square	-0.80	-0.08	-0.23	-0.17		-0.69	-0.75	-0.56				0.90				-1.05	-0.69	-0.41	0.55
B6_square	-0.46	0.31	0.59	-0.73		2.26	0.25	-0.09				0.77				0.31	0.17	0.34	0.81
C1_two-piece	-1.08	-1.71	0.08		0.58	1.04	-0.88	0.44		0.46	-0.20	-0.66	0.49	0.63	-0.52	-0.62	-0.56	-0.17	0.77
C2_two-piece	0.08	-0.16	-0.25		-0.44	-0.23	-0.50	-1.24		-0.10	-0.12	0.25	1.20	0.00	0.00	-0.44	-1.14	-0.20	0.57
C3_keystone	-0.44	-0.36	0.57		-0.92	0.64	1.22		-0.70	1.24		0.82	-0.78	0.00	0.00	-0.41	0.51	0.10	0.73
C4_keystone	-0.08	-1.61	1.78		-0.91	1.63	0.69		0.82	0.43		0.76	0.24	0.00	0.00	1.36	1.70	0.49	0.99
C5_square	-1.40	1.07	-1.23	-0.04		-0.83	3.97	0.49				1.27				0.73	3.45	0.75	1.82
C6_square	-0.66	-0.08	-0.10	-0.03		1.22	-0.56	-0.71				-1.54				-0.14	-0.04	-0.26	0.70
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square	0.03	-0.65	1.26	-1.72		0.18	0.69	0.23				-0.42				0.03	-0.30	-0.07	0.80
D6_square	-0.78	1.33	-1.14	-0.65		0.77	1.40	1.18				1.18				0.53	1.22	0.50	0.98
Cx_square	-1.28	0.80	-1.42	-0.29		-0.64	3.00	0.32				0.90				0.68	2.64	0.47	1.49
Yi MAXIMUM	-1.40	-2.26	1.78	-1.72	-0.92	2.26	3.97	-1.24	0.82	1.24	-0.20	-1.54	1.20	0.63	-0.52	-1.42	3.45	0.75	1.82
Yi MINIMUM	0.03	-0.08	0.08	-0.03	-0.44	0.18	-0.11	-0.09	-0.70	-0.10	-0.12	0.25	0.24	0.00	0.00	0.03	-0.04	-0.07	0.55
Yi MEAN	-0.68	-0.28	-0.06	-0.48	-0.42	0.49	0.70	0.09	0.06	0.51	-0.16	0.31	0.29	0.16	-0.13	-0.04	0.46		
Yi STD	0.53	1.12	0.99	0.56	0.70	0.97	1.51	0.74	1.07	0.55	0.06	0.89	0.82	0.32	0.26	0.80	1.51		

bins	count	percent		
-3	0	0.0%		
-2	1	0.9%	-1 < yi ≤ 1	73.7%
-1	12	10.5%	-2 < yi ≤ 2	96.5%
0	52	45.6%	-3 < yi ≤ 3	99.1%
1	32	28.1%	>3	0.9%
2	14	12.3%		
3	2	1.8%		
3 lt yi	1	0.9%		
total	114	100.0%		



October 20, 2002

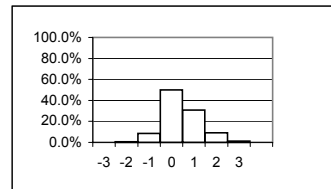
Heavy Duty Diesel Rating Workshop

Rater = VIERA

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	0.56	0.07	-0.40	-0.11		-0.85	-1.23	-0.19				0.18				-0.29	-0.29	-0.25	0.51
A1_two-piece																			
A2_two-piece																			
A3_keystone																			
A4_keystone	-1.01	0.23	-1.35		0.63	-0.63	0.09		-0.27	0.00		-1.60	-0.54	-0.39	0.09	-0.77	-0.54	-0.43	0.62
A5_square	-0.23	-0.31	-0.48	-0.54		0.65	-0.96	-0.63				-1.28				-0.23	-0.52	-0.45	0.51
A6_square	-0.65	-1.06	-0.57	-0.44		-0.54	-0.56	-0.75				0.35				-0.86	-0.75	-0.58	0.37
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square																			
B6_square																			
C1_two-piece	1.01	0.13	-0.52		0.33	0.87	1.35	1.58		1.91	1.53	0.89	-1.35	0.17	1.14	1.38	1.63	0.80	0.90
C2_two-piece	2.71	-0.25	0.01		0.68	1.29	0.27	1.36		0.22	-1.12	1.00	-0.08	0.00	0.00	2.42	1.78	0.69	1.06
C3_keystone	-0.18	-0.57	-1.30		-0.75	-0.16	-0.52		-0.12	-0.20		-0.10	-0.25	0.00	0.00	-0.87	-0.97	-0.43	0.41
C4_keystone	1.93	1.63	-0.97		-0.31	-0.10	-0.94		0.01	-0.82		-0.26	0.05	0.00	0.00	0.22	-0.81	-0.03	0.87
C5_square	-0.22	1.07	-0.63	-0.56		0.18	-0.17	0.17				-0.53				0.35	0.31	0.00	0.53
C6_square	-2.26	0.15	-0.38	-0.16		-0.47	-1.07	-0.77				-0.67				-2.14	-1.35	-0.91	0.80
D1_two-piece	-0.03	1.02	0.20		0.12	0.72	0.80	0.66		0.99	0.49	0.54	-0.65	0.00	0.00	0.68	1.01	0.44	0.48
D2_two-piece	-0.32	0.09	-1.76		0.89	1.62	0.69	1.57		0.31	0.12	1.05	0.00	0.80	0.47	0.45	0.58	0.44	0.82
D3_keystone	-0.48	-0.56	-1.55		-0.01	-0.33	-1.12		-0.14	-0.93		0.88	-0.33	-0.29	0.00	-0.55	-1.37	-0.48	0.62
D4_keystone	0.38	-1.47	-0.48		0.10	-0.59	-0.27		0.89	0.37		-0.22	-0.70	0.00	0.22	-0.54	-0.01	-0.17	0.58
D5_square	0.50	-0.17	-0.51	-0.68		-0.60	-1.59	-0.69				2.54				-0.25	-0.90	-0.24	1.11
D6_square	-0.04	0.51	-0.03	0.64		-0.13	1.40	0.29				0.50				0.18	0.75	0.41	0.46
Cx_square	-0.14	0.80	-0.19	-0.75		0.28	-0.23	0.07				-0.63				0.33	0.16	-0.03	0.46
Yi MAXIMUM	2.71	1.63	-1.76	-0.75	0.89	1.62	-1.59	1.58	0.89	1.91	1.53	2.54	-1.35	0.80	1.14	2.42	1.78	-0.91	1.11
Yi MINIMUM	-0.03	0.07	0.01	-0.11	-0.01	-0.10	0.09	0.07	0.01	0.00	0.12	-0.10	0.00	0.00	0.00	0.18	-0.01	0.00	0.37
Yi MEAN	0.09	0.08	-0.64	-0.32	0.18	0.07	-0.24	0.22	0.08	0.21	0.25	0.16	-0.43	0.03	0.21	-0.03	-0.08		
Yi STD	1.11	0.78	0.56	0.45	0.52	0.73	0.90	0.90	0.47	0.87	1.09	0.99	0.44	0.33	0.38	1.01	0.97		

bins	count	percent		
-3	0	0.0%		
-2	1	0.6%	-1 < yi ≤ 1	80.7%
-1	15	8.5%	-2 < yi ≤ 2	98.3%
0	88	50.0%	-3 < yi ≤ 3	100.0%
1	54	30.7%	>3	0.0%
2	16	9.1%		
3	2	1.1%		
	0	0.0%		
total	176	100.0%		



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Heavy Duty Diesel Rating Workshop

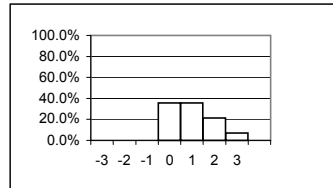
Rater = WALKER

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.73	-0.19	-0.11	1.77		-0.87	0.95	0.62				-0.18				-0.93	-0.93	-0.06	0.91
A1_two-piece																			
A2_two-piece																			
A3_keystone																			
A4_keystone																			
A5_square	1.46	2.66	-0.19	-0.20		-0.12	0.23	0.08				1.09				1.88	1.04	0.79	0.99
A6_square	0.63	0.84	0.86	1.00		0.05	0.11	0.18				-0.26				0.68	0.70	0.48	0.42
B1_two-piece																			
B2_two-piece																			
B3_keystone																			
B4_keystone																			
B5_square	0.45	1.11	2.59	2.65		-0.52	1.22	0.31				1.37				0.86	2.13	1.22	1.02
B6_square	1.56	-0.19	-0.15	1.25		-0.52	1.58	2.09				0.95				1.65	1.19	0.94	0.90
C1_two-piece																			
C2_two-piece																			
C3_keystone																			
C4_keystone																			
C5_square	1.85	-0.09	0.26	-0.04		-0.30	-0.10	0.24				0.45				1.35	0.13	0.37	0.69
C6_square	0.77	1.22	-0.10	-0.03		-0.61	0.45	1.24				0.20				0.58	0.83	0.46	0.59
D1_two-piece																			
D2_two-piece																			
D3_keystone																			
D4_keystone																			
D5_square																			
D6_square																			
Cx_square																			
Yi MAXIMUM	1.85	2.66	2.59	2.65		-0.87	1.58	2.09				1.37				1.88	2.13	1.22	1.02
Yi MINIMUM	0.45	-0.09	-0.10	-0.03		0.05	-0.10	0.08				-0.18				0.58	0.13	-0.06	0.42
Yi MEAN	0.86	0.77	0.45	0.91		-0.41	0.63	0.68				0.52				0.87	0.73		
Yi STD	0.87	1.04	1.01	1.07		0.31	0.63	0.74				0.64				0.93	0.95		

bins	count	percent
-3	0	0.0%
-2	0	0.0%
-1	0	0.0%
0	20	35.7%
1	20	35.7%
2	12	21.4%
3	4	7.1%
total	56	100.0%

-1 < yi ≤ 1	71.4%
-2 < yi ≤ 2	92.9%
-3 < yi ≤ 3	100.0%
>3	0.0%



October 20, 2002

Heavy Duty Diesel Rating Workshop

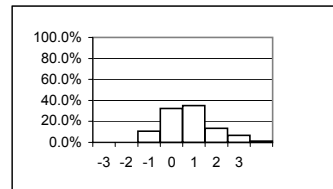
Rater = WRENCH

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD	
calibration_piston	0.78	0.98	1.38	0.78		0.32	1.45	2.41				0.00				1.30	1.30	1.07	0.67	
A1_two-piece																				
A2_two-piece																				
A3_keystone																				
A4_keystone																				
A5_square																				
A6_square																				
B1_two-piece																				
B2_two-piece																				
B3_keystone																				
B4_keystone																				
B5_square																				
B6_square																				
C1_two-piece	-0.31	1.29	1.37		0.64	0.44	1.83	-0.84		0.90	0.75	-1.25	-0.43	1.32	-0.52	0.67	0.80	0.44	0.91	
C2_two-piece	-0.37	-0.30	0.25		-0.59	-0.41	0.35	0.24		0.08	0.98	-1.24	-1.36	0.00	0.00	-0.45	0.14	-0.18	0.60	
C3_keystone	-0.23	-1.39	0.92		1.03	0.30	0.54		0.28	0.46		-1.27	-0.72	0.00	0.00	-0.67	0.25	-0.04	0.74	
C4_keystone	0.35	-0.05	0.44		0.44	1.28	1.43		1.42	0.72		-0.26	-0.52	0.00	0.00	1.45	1.86	0.61	0.75	
C5_square	0.75	-0.15	2.12	-1.33		-0.03	0.03	0.24				-0.04				0.66	0.33	0.26	0.87	
C6_square	0.41	-1.35	2.88	2.76		-1.83	3.50	2.86				-0.15				-0.23	1.91	1.08	1.94	
D1_two-piece																				
D2_two-piece																				
D3_keystone																				
D4_keystone																				
D5_square																				
D6_square																				
Cx_square																				
Yi MAXIMUM	0.78	-1.39	2.88	2.76	1.03	-1.83	3.50	2.86	1.42	0.90	0.98	-1.27	-1.36	1.32	-0.52	1.45	1.91	1.08	1.94	
Yi MINIMUM	-0.23	-0.05	0.25	0.78	0.44	-0.03	0.03	0.24	0.28	0.08	0.75	0.00	-0.43	0.00	0.00	-0.23	0.14	-0.04	0.60	
Yi MEAN	0.20	-0.14	1.34	0.74	0.38	0.01	1.30	0.98	0.85	0.54	0.86	-0.60	-0.76	0.33	-0.13	0.39	0.94			
Yi STD	0.50	1.03	0.93	2.05	0.69	0.96	1.17	1.58	0.81	0.36	0.16	0.62	0.42	0.66	0.26	0.85	0.76			

bins	count	percent
-3	0	0.0%
-2	0	0.0%
-1	8	10.8%
0	24	32.4%
1	26	35.1%
2	10	13.5%
3	5	6.8%
total	74	100.0%

-1 < yi ≤ 1	67.6%
-2 < yi ≤ 2	91.9%
-3 < yi ≤ 3	98.6%
>3	1.4%



October 20, 2002

Heavy Duty Diesel Rating Workshop

Rater = YANCHAR

Yi VALUES

	Groove 1	Groove 2	Groove 3	Groove 4	Land 1	Land 2	Land 3	Land 4	Upper Skirt	Under-crown	Oil Gallery	TGF	2GF	TLHC	TLFC	UWPD	WPD	MEAN	STD
calibration_piston	-0.30	0.93	-0.55	-0.50		-0.67	-0.41	-0.76				-1.66				-0.22	-0.22	-0.44	0.64
A1_two-piece																			
A2_two-piece	-0.08	1.01	-1.31		0.13	0.82	0.35	-0.98		0.40	-0.98	-0.23	1.56	0.00	-0.27	0.47	-0.67	0.01	0.80
A3_keystone	0.00	0.32	-0.56		0.31	-0.03	-0.44		-0.35	0.18		-0.15	0.38	0.00	-0.24	0.19	-0.29	-0.05	0.30
A4_keystone	-0.45	0.63	-0.68		1.00	0.08	-0.14		-0.19	0.32		0.74	-0.24	-0.39	0.90	0.34	-0.13	0.13	0.53
A5_square																			
A6_square																			
B1_two-piece																			
B2_two-piece	1.18	0.69	-0.91		-0.43	1.32	-0.27	-0.65		0.41	-0.78	0.20	0.62	-0.37	0.00	0.80	-0.22	0.11	0.71
B3_keystone																			
B4_keystone																			
B5_square																			
B6_square	-0.39	0.46	-0.82	-0.73		0.28	-1.15	-0.34				-0.17				-0.37	-0.61	-0.38	0.49
C1_two-piece																			
C2_two-piece	0.48	0.93	-0.83		0.00	1.32	0.83	-0.05		-0.18	0.50	1.12	0.77	0.00	0.00	0.92	0.28	0.41	0.58
C3_keystone																			
C4_keystone																			
C5_square																			
C6_square	0.49	0.59	-1.21	-1.25		0.59	-0.56	-0.71				0.55				0.63	-0.41	-0.13	0.78
D1_two-piece																			
D2_two-piece																			
D3_keystone	-0.23	-0.55	-0.07		0.47	-0.72	0.52		0.02	0.56		-0.51	1.44	-0.29	0.00	-0.22	0.19	0.04	0.57
D4_keystone	0.38	0.37	-0.83		0.48	-0.27	-0.82		-0.36	0.40		0.45	1.57	0.00	0.47	0.29	-0.66	0.11	0.65
D5_square	-0.56	0.21	-0.46	-0.68		0.31	-1.19	-0.80				0.69				-0.16	-0.35	-0.30	0.57
D6_square																			
Cx_square																			
Yi MAXIMUM	1.18	1.01	-1.31	-1.25	1.00	1.32	-1.19	-0.98	-0.36	0.56	-0.98	-1.66	1.57	-0.39	0.90	0.92	-0.67	-0.44	0.80
Yi MINIMUM	0.00	0.21	-0.07	-0.50	0.00	-0.03	-0.14	-0.05	0.02	0.18	0.50	-0.15	-0.24	0.00	0.00	-0.16	-0.13	0.01	0.30
Yi MEAN	0.05	0.51	-0.75	-0.79	0.28	0.28	-0.30	-0.61	-0.22	0.30	-0.42	0.09	0.87	-0.15	0.12	0.24	-0.28		
Yi STD	0.53	0.44	0.35	0.32	0.45	0.70	0.65	0.31	0.18	0.24	0.80	0.76	0.69	0.19	0.42	0.44	0.31		

bins	count	percent
-3	0	0.0%
-2	0	0.0%
-1	6	5.0%
0	60	50.4%
1	45	37.8%
2	8	6.7%
3	0	0.0%
total	119	100.0%

-1 < yi ≤ 1	88.2%
-2 < yi ≤ 2	100.0%
-3 < yi ≤ 3	100.0%
>3	0.0%

