



Test Monitoring Center


203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

MEMORANDUM: 26-003

DATE: January 26, 2026

TO: D02.B0.07 Section and Surveillance Panel Chairs

FROM: John Loop 

SUBJECT: Adjusted Specification Limits for EOEC D7216 Tests

On 2 February 2023 the EOEC Surveillance Panel voted unanimously to resume the practice of determining acceptable test performance ranges for EOEC tests using Adjusted Specification Limits. These limits are calculated from Standard Deviation Values obtained from SL107 reference oil calibration tests completed in the previous two years.

The within-lab and overall (total) standard deviation values to be used to calculate adjusted specification limits for tests completed between 1 February 2026 and 31 January 2027 are shown below in Table 1.

For details regarding which D7216 elastomers use Adjusted Specification Limits and how to calculate Adjusted Specification Limits, please refer to Annex A5 of ASTM D 4485.

The current EOEC Standard Deviation values will be maintained on the TMC website at:

https://www.astmtmc.org/ftp/docs/bench/eoec/memos/EOEC_Adj_Specification_Limits_StndDevs/

JGL/jgl

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D7216 Reference Oil SL107 Data: STDEVs for EOEC Adj Limits Calculations (All Standard Deviation Units in % Change)

Parameter		EOECF FKM	EOECF FKM2	EOECN NBR	EOECP ACM	EOECS VMQ1	EOECV MAC	EOECH HNBR
VOLC	n	281	30	328	281	260	260	29
	Within Lab STDEV	0.35	0.17	0.47	0.48	2.31	1.09	0.49
	Overall STDEV	0.36	0.20	0.49	0.52	3.18	1.29	0.71
HARD	n	281	30	328	281	260	260	29
	Within Lab STDEV	1.57	0.44	1.07	1.49	1.15	1.08	0.84
	Overall STDEV	2.07	0.99	1.12	1.68	1.85	1.23	0.80
TENS	n	281	30	328	281	260	260	29
	Within Lab STDEV	3.32	0.73	7.16	6.06	4.89	6.60	5.18
	Overall STDEV	3.84	3.86	7.52	6.46	5.32	7.05	6.13
ELONG	n	281	30	328	281	260	260	29
	Within Lab STDEV	4.79	1.40	10.39	8.79	7.90	7.81	8.08
	Overall STDEV	7.14	4.97	10.50	8.88	8.00	8.12	10.89

Notes:

- 1: Surveillance Panel voted to resume the use of Overall STDEV for Candidate Pass/Fail Adjustment Calculation on 20230202
- 2: STDEV Values to be updated yearly based upon rolling 2-year averages of SL107 calibration data.
3. Effective Date: YEAR 2026 (Source Data: SL107 Reference Oil Results 2024-2025)

Data Source: Years 2024 and 2025