

Mack T-12 EGR Engine Test

Mack Merit Rating, min. 1,000
 Cylinder Liner Wear (Avg. 6 cylinders, 12 locations) 20
 Top Ring Weight Loss (Avg. of 6 Cylinders) 70
 End of Test Lead 25
 Delta Lead 250 - 300 hrs. 10
 Oil Consumption (Phase II) 65

Mack T-11 Engine Test

Minimum TGA % Soot @ 4.0 cSt increase @ 100° C 3.50/3.38/3.33%
 Minimum TGA % Soot @ 12.0 cSt increase @ 100° C 6.00/5.91/5.87%
 Minimum TGA % Soot @ 15.0 cSt increase @ 100° C 6.70/6.59/6.55%

Mack T-11A Used MRV TP-1

180 hour T-11 Drain MRV, mPa-s, max. 25,000
 MRV Yield Stress, Pa, <35

Cummins ISM EGR Engine Test

Cummins Merit Rating, min. 1,000
 Crosshead Avg. Wt. Loss 5.7
 Top Ring Weight Loss 100
 Delta Oil Filter Differential Pressure 0 to 150 hr. 13
 Average Engine Sludge / CRC Merits @ EOT 9.0
 Average Injector Adjusting Screw Weight Loss, mg. 27

Cummins ISB EGR Engine Test

Average Slider Tappet Weight Loss, mg, max. 100
 Average Cam Lobe Wear, µm, max. 55
 Average Crosshead Weight Loss, max. R&R

Caterpillar C13 Deposit/Oil ConsumptionTest

CAT Merit Rating, min. 1,000
 Oil Consumption Delta (125=>475 hours), g/hr. 25
 Top Groove Carbon 46
 Top Land Carbon 30
 Second Ring Top Carbon 22
 Hot-stuck piston ring NONE

Caterpillar 1N

Weighted Demerits, max. 286.2/311.7/323.0
 Top Groove Fill, max. 20/23/25
 Top Land Heavy Carbon, max. 3/4/2005
 Oil Consumption (0-252 hrs) g/kwh, max. 0.5
 Piston/ring/liner scuffing NONE
 Piston ring stick NONE

MERIT Procedure full description, D4485 Annex partial description and MTAC

TIERED D4485 Annex CJ outlier determination

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TIERED D4485 Annex CJ outlier determination (copy A9 CI-4)

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none D4485 Annex CJ outlier determination (copy A9 CI-4)

Caterpillar 1P

Weighted Demerits, max. 350/378/390
Top Groove Carbon, max. 36/39/41
Top Land Carbon, max. 40/46/49
Oil Consumption (0 to 360 hrs) g/hr, max. 12.4
Final OC (312-360 hrs), max. 14.6
Piston/ring/liner scuffing NONE

Sequence IIIF Engine Test

EOT Kinematic Viscosity / % Increase @ 40° C, max. 275%

Sequence IIIG Engine Test (alternative to IIIF)

EOT Kinematic Viscosity / % Increase @ 40° C, max. 150%

Roller Follower Wear Test D 5596

Average pin wear, mils, max. 0.30/0.33/0.36

EOAT Test D 6894

Aeration, volume %, max 8.0

TIERED D4485 Annex CJ outlier determination (copy A7 CH-4)
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MTAC D4485 A1 CI-4 1/sqrt

MTAC D4485 A1 CI-4 ln

TIERED D4485 Annex CJ outlier determination (copy A9 CI-4)

MTAC D4485 A1 CI-4