

CATEGORY DEFINITION

EMA PC-10 Performance Requirements

Characteristic	Test	Notes
Piston Deposits and Oil Consumption, Fe	Caterpillar C-13*	Multi-Cylinder Diesel with Full ACERT System
Piston Deposits and Oil Consumption, Al	Caterpillar 1N	CG-4 Limits
Ring and Liner Wear, Bearing Wear, Oxidation	Mack T-12*	T-10/T-11 Hardware with Heavy EGR
Soot Valve Train Wear (Abrasive/Rolling)	RFWT	CH-4 Limits
Soot, Filter Plugging, Valvetrain Wear and Sludge	Cummins ISM*	Replaces M11-EGR with Current Hardware
Soot Valve Train Wear (Sliding)	Cummins ISB*	Cyclic Test with Flat Tappet Cam Follower
Thermal Stability	Sequence IIIF or IIIG	Oxidation Only
Oil Aeration	EOAT	CH-4 Limits
Elastomer Compatibility	Bench Test	CI-4 Seals Plus Vamac
Soot/Viscosity	Mack T-11	CI-4 Plus Test
Used Oil Low Temp Viscometrics	J300 Bench Tests	T-11 Used Oil
Shear Stability	90 Pass Kurt Orbhan	CI-4 Plus Test
Volatility	NOACK	13% (Except SAE 10W-30)
Hi Temp Corrosion Bench Test	Current HTCBT	CH-4 Limits
Chemical Limits	D874/D4951/D2622	SASH, P, and S
Foaming	D892	CH-4 Limits

* **New test *that required* precision and/or BOI/VGRA testing.**