



PURAMAX CleanFleet 10W-30 CK-4

PURAMAX CleanFleet 10W-30 is a synthetic blend API CK-4 heavy-duty motor oil that meets and exceeds the service requirements of virtually all diesel engine manufacturers. PURAMAX CleanFleet 10W-30 provides outstanding engine protection for 2007 and 2010 exhaust particulate emissions equipped on-highway diesel engines using Ultra Low Sulfur Diesel (ULSD). It is also recommended for older and off-highway diesel engines.

PURAMAX CleanFleet 10W-30 is formulated with synthetic blend base oils and additive systems to provide superior wear and deposit protection during cold engine start-up through maximum operating temperatures. Ultimate protection is delivered in all climates and driving conditions, from stop-and-go city driving to long-distance hauling. It provides superior soot control and an exclusive detergent system for outstanding engine cleanliness, extending the life and optimizing service intervals for 2007 Exhaust Gas Recirculation (EGR) systems with Diesel Particulate Filters (DPF) and 2010 Selective Catalytic Reduction (SCR) with DPF low emission engines.

APPLICATIONS

PURAMAX CleanFleet 10W-30 is a synthetic blend motor oil recommended for use in four-stroke engines calling for an API CK-4 service category and SAE 10W-30 viscosity grade.

- *Engines recommending API CK-4, CJ-4, CI-4 Plus, CI-4,*
- *Recommended for use in naturally aspirated and turbocharged four-stroke diesel engines*
- *2007 and 2010 emission compliant engines utilizing EGR & SCR with DPF*
- *Older engines in on-highway and off-highway service*
- *Exceptional performance with on- and off-highway diesel fuels*

FEATURES AND BENEFITS

- *Meets and exceeds requirements of high performance low emission diesel engines while providing excellent performance in older engines allowing operators the use of one oil for a mix of engine brands*
- *Diesel Particulate Filter (DPF) and After Treatment Exhaust (ATD) compatible*
- *Improved wear protection, deposit and viscosity control and oxidation resistance*
- *Viscosity index improver provides exceptional low temperature flow properties for cold starts*
- *Provides superior soot control and an exclusive detergent system for outstanding engine cleanliness, helps avoid filter plugging, cylinder head sludge, abrasive polishing wear and oil gelling*
- *Excellent protection against valve train, piston ring and liner wear to help prolong engine life*
- *Outstanding shear stability for viscosity control*
- *Maximizes vehicle utilization and minimizes downtime*

RECOMMENDED PERFORMANCE SPECIFICATIONS

- *API Service Categories: CK-4, CJ-4, CI-4 Plus, CI-4*
- *ACEA E7/E9*
- *Caterpillar ECF-3, ECF-2, ECF-1*
- *Cummins CES 20086, CES 20081*
- *Daimler MB 228.31*
- *DDC 93K222, 93K218*
- *Ford WSS-M2C171-E, WSS-M2C171-F1*
- *JASO DH-2*
- *Mack EOS-4.5, EO-O, EO-O; Premium Plus 07*
- *MAN 3575*
- *Renault RLD-4, RLD-3*
- *Volvo VDS-4.5, VDS 4*



PURAMAX CleanFleet® 10W-30 CK-4	Typical Characteristics	
	<i>Test Method ASTM-D</i>	<i>SAE Viscosity Grade</i>
		10W-30
API Gravity	1298	31.1
Flash Point, °C/°F	92	237/458.6
Pour Point, °C/°F	97	-36/-32.8
Low Temp Viscosity cP @-25°C	5293	6200
Viscosity		
cSt @ 40°C	445	81
cSt @ 100°C	445	12.1
Viscosity Index	2270	145
Sulfated Ash wt%	874	1.0 max
TBN	2896	10.0

Minor variations in test data are to be expected in normal manufacturing