



COSMOS DIESEL ENGINE OIL
Semi- Synthetic

COSMOS Diesel Engine Oil is a part-synthetic base high performance Diesel Engine Oil formulated with an advanced, state-of-the-art detergent-inhibitor additive package using high quality, solvent refined, paraffinic base oils. This carefully tailored combination of additives and base oils allows for outstanding high temperature, thermal and oxidative stability and resultant superior protection against piston lacquer deposits. This protection results from the dispersant technology, which helps in protecting metal surfaces and oil temperature sludge as well as fuel generated soot. It is recommended for multiple crankcase applications including heavy-duty diesel engines used in over-the-road trucks, construction, agricultural, and power generation equipment, as well as gasoline powered cars and light-duty trucks.

FEATURES & BENEFITS

- Turbo-charged, High Output Diesel Engines – minimizes diesel engine wear, piston scuffing, ring sticking, valve train wear bearing corrosion, and rust, even under severe engine load, temperature or fuel quality conditions.
- Extended Drain Periods – has the ability to maintain alkaline reserve for possible extension of oil drain intervals in diesel engines.
- High quality base oils helps in reducing oil volatility and therefore the oil consumption.
- Minimizes vibrations and engine noise and hence gives a smooth and quiet drive.

PERFORMANCE LEVELS

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|------------------------|------------------------------|
| • API – CH4/SJ | CUMMINS 20076 |
| • ACEA – B3-98, A3-98 | MAN 271 |
| • ACEA – E3-96 Issue 2 | CUMMINS 20072 |
| • MB 228.3 Blanker | CUMMINS 20071 |
| • MB 229.1 | DDC Series 2000, 4000 Type 2 |
| • MACER EO-M, EO-M+ | Volvo VDS-2 |

TYPICAL CHARACTERISTICS

Properties	Typical Value	
	10W40	15W40
SAE Grade		
Specific Gravity @ 15°C	0.875	0.881
Flash Point , °C	>210	>220
Kinematic Viscosity @40 °C, cSt	104	110.5
Kinematic Viscosity @100 °C, cSt	14.5	15.0
Viscosity Index	>140	>135
Total Base Number, mg KOH/g	11.0	11.0
Pour Point, °C	-33	-30

******These characteristics are typical of current production. Whilst future production will conform to COSMOS's specification, variations in these characteristics may occur.

HANDLING, HEALTH, & SAFETY

- Lubricant consisting of highly refined mineral oils with specific additives under normal conditions of use, presents no particular toxic hazard. All lubricants of any kind should be handled with great care, particularly avoiding any contact with skin.
- Prevent any splashing, and keep away from combustible materials. Store under cover and away from any risk of pollution. Dispose of the used oil properly; don't pour down drains, into watercourses or the soil.
- Take used oil to an authorized collection point.