



**DIESEL ENGINE OIL
SAE 15W40, 20W50**

PERFORMANCE PROFILE:

API CI4/SJ	ACEA B3-98 Issue 2
ACEA E3-96 Issue 4	ACEA A3-02, E5-02, B4-02
MB 228.1/229.1	MTU TYPE 2
MAN 3275	MACK EO-M plus
VOLVO VDS-3	RVI RLD
ZF TE- ML 07C	CUMMINS CES 20078/77/76/72
CATERPILLER ECF-1	

APPLICATION: This is extra high performance diesel engine oil that provides excellent lubrication of today's diesel engine promoting extended engine life. This oil is recommended for use in naturally aspirated and turbo-charged diesel powered equipment from leading Japanese, European and American Manufactures. Specially suited for most modern, high speed, heavy duty, supercharged or turbocharged diesel and gasoline engines used in passenger cars, long haul trucks, and off-highway equipments used in construction, mining, quarrying industries.

KEY FEATURES:

- Improved fuel economy and filterability
- Exceptional thermal stability at high temperature
- Extremely high control over wear, rust and corrosion to ensure long life of moving parts.
- Outstanding lubrication powers in all seasons
- Longer maintenance intervals and oil change period
- Excellent fluidity at low temperature ensures good starting
- Excellent protection against oxidation, foaming, low temperature sludge and high temperature deposits
- Properly balanced detergency and dispersancy ensures a clean engine

TECHINICAL DATA:

CHARACTERISTICS	TEST METHOD	TYPICAL VALUE	
		15W40	20W50
Density at 15°C, Kg/L	ASTM D1298	0.886	0.89
Viscosity at 40°C, cSt	ASTM D445	110	170
Viscosity at 100°C, cSt	ASTM D445	14.5	18.5
Viscosity Index	ASTM D2270	124	115
Flash Point, COC, °C	ASTM D92	230	240
Pour Point, °C	ASTM D97	-24	-21
TBN, mgm KOH/gm	ASTM D2896	12	12

