



Ornate Max-1000

Heavy Duty Diesel Engine Oil

SAE 20W50, API:CI-4/SL

Ornate Max-1000 is super quality diesel engine oil blended with special quality hydrocracked base fluid and premium additives. As it contains the anti-oxidant property at a great extend with premium additives and technology, it can reduce the carbon created at today's highly operating temperature. It reduces the oil consumption and extends the drain-interval much longer than that of conventional mineral base engine oil. It gives outstanding performance in all type of Japanese, European, American and Indian latest as well as old-model vehicles for all weathers.

Ornate Max-1000 exceeds API CI-4 / SL standard and meets most of the European Diesel Engine OEM requirements.

APPLICATION

Ornate Max-1000 is recommended for use in heavily loaded diesel engines in commercial use and heavy-duty diesel engine used in construction, mining and quarrying. It is equally applicable both for old and new engine.

BENEFITS

- All year-round usability.
- Highest engine protection.
- Very long drain intervals.
- Minimizes oil consumption.
- Anti-wear & anti-oxidant.
- Advanced premium quality oil with Synthetic Technology.
- Optimizes friction in the clutch and reduces internal engine losses due to friction.



TYPICAL CHARACTERISTICS

TEST DESCRIPTION	METHOD	TYPICAL RESULTS
SAE VISCOSITY GRADE	-	20W50
Appearance	ASTD D 4176	B & C
Color	ASTM D 1500	L 3.5
Density at 30°C gm/ml	ASTM D 4052	0.872
Kinematic Viscosity @ 40°C	ASTM D 445	146.7
Kinematic Viscosity @ 100°C	ASTM D 445	18.6
Viscosity Index	ASTM D 2270	143
TBN	ASTM D 5984	13.5
Flash Point °C	ASTM D 92	223
Pour Point °C	ASTM D 97	-20

Data Sheet



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PERFORMANCE STANDARDS

- API: CI-4 / SL
- MB 229.1
- MB 228.1 /228.3
- ZF TE-ML07C
- ZF TE-ML04C
- Allison C-4
- VOLVO VDS-3
- Detroit Diesel DDC 93K214
- ACEA 2004 E7-04
- ACEA 1996 E2-05
- ACEA 1998 B3-02
- ACEA 1996 A2-03
- MTU Oil Category 1
- Caterpillar ECF 1
- MAN 271
- Cummins CES 20078
- Mack EO-M Plus
- Mack EO-N Premium plus 03



Data Sheet



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