



Ornate DO-1000

Superior Turbo Diesel Engine Oil

SAE 15W40 API: CI-4/SL

Ornate DO-1000 series are premium quality Heavy-Duty diesel engine oil formulated to meet the API CI-4/SL standard. It is made from hydrocracked base oil with specially selected additives package. It is specially formulated to protect the engine under all operating conditions. Ornate DO-1000 offers the maximum engine protection in the most severe servicing conditions. It provides effective resistance against oxidation, corrosion and wear. In addition, it maintains engine cleanliness.

APPLICATION

Ornate DO-1000 is recommended for use in heavy 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

- Excellent engine cleanliness through soot handling technology.
- Exceeds the requirements of API "Energy conserving".
- Superior chemical and thermal stability.
- Trouble free operation between long drain service intervals.



TYPICAL CHARACTERISTICS

TEST DESCRIPTION	METHOD	TYPICAL RESULTS
SAE VISCOSITY GRADE	-	15W40
Appearance	ASTM D 4176	B & C
Color	ASTM D 1500	L 3.0
Density at 30°C gm/ml	ASTM D 4052	0.861
Kinematic Viscosity @ 40°C	ASTM D 445	115.1
Kinematic Viscosity @ 100°C	ASTM D 445	15.3
Viscosity Index	ASTM D 2270	140
TBN	ASTM D 2896	11.4
Flash Point °C	ASTM D 92	235
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



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