

MAK D-GEN 15W-40

High quality engine oil for turbocharged DG sets

MAK D-GEN 15W-40 is an exclusively formulated multi-grade diesel engine oil for modern, high powered turbocharged DG sets that power mobile towers. It is manufactured using superior quality base oils and advanced additive chemistry. This oil is specially formulated to provide excellent protection to DG set engines operating under severe conditions. The oil is suitable for all weather conditions and has potential to reduce oil consumption. It offers outstanding protection against oil oxidation/ degradation, controls oil thickening and provides corrosion resistance. This oil has good shear stability and maintains its viscosity even under high temperature, high shear conditions.

Applications:

MAK D-GEN 15W-40 is recommended as crankcase oils for use in slow, medium and high speed stationary naturally aspirated and turbocharged DG Sets. This oil has been successfully evaluated in one of the leading mobile tower companies DG sets and oil drain period of 600 hrs has been established. This has been achieved along with following healthy maintenance practices. Alternatively be guided by OEM’s recommendation for oil drain period.

Performance/ Benefits:

Resistance to Oxidation and Thermal Degradation – enhanced high temperature stability offers superior protection to the oil at high temperatures and controls formation of sludge build-up and deposits.

Superior Engine Protection – offers superior protection against wear, especially engine scuffing and bore polishing of engine components at all operating temperatures. Extends engine life and reduces maintenance costs.

Engine Cleanliness – superior dispersancy characteristics in the oil prevents oil thickening and increases the oil service life.

Long Service Life – formulation with low volatility, high quality Group II plus base oils which has potential for reducing oil consumption/ top-ups.

Multi-grade Performance – designed to provide easy engine start-up and minimal start-up wear along with protection in high temperature conditions.

Excellent Shear Stability – ensures viscosity control at high temperatures and high shear conditions. Provides excellent protection.

Good TBN Retention – excellent protection against corrosive wear of engine components due to high TBN retention capacity over the entire oil life.

Performance Level/ Specification:

Meets the performance benchmarks of

- API CF-4/SG
- MB 228.1

Typical Physico-Chemical Data:MAK D-GEN 15W-40

Characteristics	Method	Value
SAE Grade	SAE J300	15W-40
Color	Visual	Brown
Appearance	Visual	Clear
Density @29.5°C, g/cc	ASTM D1298	0.859
Kinematic Viscosity @40°C, cSt	ASTM D445	106.4
Kinematic Viscosity @100°C, cSt	ASTM D445	14.34
Viscosity Index	ASTM D2270	138
Copper Corrosion, 100°C, 3 hrs.	ASTM D130	1a
Flash Point, °C	ASTM D92	224
Pour Point, °C	ASTM D97	-24
Foaming Tendency	ASTM D892	
a) Sequence I		Nil / Nil
b) Sequence II		10 / Nil
c) Sequence III		Nil / Nil

Storage & Handling:

The product should be stored inside. Keep it properly sealed to avoid contamination. Avoid freezing and store under protected storage conditions.

Health & Safety:

It is unlikely to be hazardous when properly used in recommended applications. Contamination of the oil from other oils, greases, chemicals, dirty water etc. can occur during the use. It should be avoided. Regular monitoring of the in-use product is recommended.