MAK T 30

High performance monograde heavy duty diesel engine oil

MAK T 30 is a high performance monograde diesel engine oil blended from superior quality base oils and well balanced group of additives to provide high detergency, dispersancy and anti-oxidation characteristics. This oil is formulated to perform under the most stringent operating conditions of heavy duty diesel engines and assures outstanding protection against oil oxidation/ degradation, oil thickening and corrosion. It is specially developed to superior protection to DG set engines operating under severe conditions. MAK T 30 retains its viscosity levels and delivers optimum lubrication and maintains reliability. This oil provides the highest level of protection for relatively older engines, large or small, non-turbocharged or turbocharged diesel engines.

Applications:
MAK T 30 is recommended as crankcase oil for slow, medium and high speed naturally aspirated, turbo-charged diesel DG Sets and off-highway/ earthmoving equipment. 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 engine oil at high temperatures and controls formation of sludge build-up and deposits. Extends oil life.

Excellent Wear Protection – offers superior protection against wear, especially engine scuffing and bore polishing of engine components under a wide operating temperatures.

Engine Cleanliness – high performance additives in the engine oil provide improved engine cleanliness and ensure consistent high performance of the engines.

High TBN Retention – the engine oil exhibits high TBN retention capabilities over the entire oil life resulting in superior prevention of corrosive wear to engine parts.

Long Service Life – formulation with high quality base oils reduces oil consumption/ top-ups.

Enhanced Engine Durability – provides component longevity through a balanced formulation that helps maximise engine durability. Lowers cost of ownership and improves profitability.

Performance Level/ Specification:
Meets the performance benchmarks of

- API CF/ CD
- Mack T-7/ T-8A Test
- IS 13656:2014 Type EDL3

Typical Physico-Chemical Data: MAK T 30

Characteristics	Method	Value
SAE Grade	SAE J300	30
Color	Visual	Red
Appearance	Visual	Clear
Density @29.5^{O}C, g/cc	ASTM D1298	0.858
Kinematic Viscosity @40^{O}C, cSt	ASTM D445	104.20
Kinematic Viscosity @100^{O}C, cSt	ASTM D445	11.40
Viscosity Index	ASTM D2270	96
Copper Corrosion, 100^{O}C, 3 hrs.	ASTM D130	1a
Flash Point, ^{O}C	ASTM D92	230
Pour Point, ^{O}C	ASTM D97	-9
Foaming Tendency a) Sequence I b) Sequence II c) Sequence III	ASTM D892	 Nil / Nil 10 / Nil 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.

Bharat Petroleum Corporation Ltd.
Product and Application Development Deptt.
BPCL, "A" Installation, Sewree Fort Road, Sewree (East),
Mumbai – 400015 E-mail: MAKcustomercare2@bharatpetroleum.in Tel No.: 022-24176351