

# MAK GOLD 40

High performance heavy duty diesel engine oil

MAK Gold 40 is high quality diesel engine oil blended with superior quality high viscosity index base oil 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 offers outstanding protection against oil degradation, oil thickening and corrosion. These oils provide the highest level of protection for relatively older engines, large or small, non-turbocharged or turbocharged diesel engines.

**Applications:**

MAK Gold 40 is recommended for use in heavy duty commercial vehicles, light commercial vehicles, Multi-utility vehicles, tractors, 3 wheelers, gensets etc. fitted with high speed naturally aspirated or turbo-charged diesel engines operating at low speed and high torque conditions. **This oil was evaluated in “Double Decker” buses of M/s. BEST, Mumbai and drain interval of 22,000 kms was established. Also demonstrated Long Drain capability in APSRTC buses.** Alternatively be guided by OEM’s recommendation for oil drain period.

**Performance/ Benefits:**

**Resistance to Oxidation and Thermal Degradation** – enhanced high temperature oxidation stability offers superior protection to the engine oil at high temperatures and ensures reduced soot related oil thickening. Extends oil service life.

**Enhanced Engine Life** – superior wear protection characteristics provides improved protection to various critical engine parts such as cylinder liner, piston rings, valves, cams etc. over wide range of operating temperature. Extends engine life and offers reduced maintenance costs.

**Engine Cleanliness** – high performance additives provide improved engine cleanliness and ensures consistent high performance of the engines.

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

**Reduced Oil Consumption** – high quality base oils with lower volatility have potential of lowering oil consumption and reduced top ups.

**Performance Level/ Specification:**

Meets the performance benchmarks of

- API CF
- Caterpillar Series 3
- US MIL-L-2104C specifications
- MACK T-7 / T-8A Test
- IS 13656:2014 Type EDL3

**Typical Physico-Chemical Data: MAK Gold 40**

Characteristics	Method	Value
SAE Grade	SAE J300	40
Color	Visual	Red
Appearance	Visual	Clear
Density @29.5°C, g/cc	ASTM D1298	0.860
Kinematic Viscosity @40°C, cSt	ASTM D445	114.7
Kinematic Viscosity @100°C, cSt	ASTM D445	14.20
Viscosity Index	ASTM D2270	125
Copper Corrosion, 100°C, 3 hrs.	ASTM D130	1a
Flash Point, °C	ASTM D92	240
Pour Point, °C	ASTM D97	-6
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.