

MAK ULTRA SUPREME 15W-40

Heavy duty diesel engine oil with API CF-4 performance

MAK Ultra Supreme 15W-40 is a heavy duty diesel engine oil blended from severely hydrotreated high viscosity index base stocks. It has been specially formulated to provide superior protection and reliable performance in a wide variety of heavy duty, high powered, turbocharged diesel engines. It offers excellent piston cleanliness. This oil has better TBN retention capability to help protect engine components from corrosion. It is suitable for all weather conditions and helps in reducing oil consumption. The engine oil assures outstanding protection against oil oxidation/ degradation and oil thickening. This oil has good shear stability and maintains its viscosity even under high shear and high temperature conditions. MAK Ultra Supreme 15W-40 is suitable for engines requiring added wear protection and oil loss prevention.

Applications:

MAK Ultra Supreme 15W-40 is suitable for use in high powered turbo-charged diesel engines used in earthmoving equipment and stationary DG sets. It is also suitable for diesel engines requiring oils with CF-4, CF and CD performance. 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 engine oil at high temperatures and controls sludge build-up and deposits formation. Extends oil life.

Enhanced Engine Life – excellent protection against wear of critical engine parts even under severe operating conditions enhances the life of engines and reduces maintenance costs.

Engine Cleanliness – superior dispersancy property prevents oil thickening and increases oil service life.

Long Service Life – high quality base oils with lower volatility have potential of lower oil consumption. Reduces top ups.

Corrosion Protection – provides excellent control of acids formed by oxidation and combustion. Selected detergent additives neutralise them help prevent corrosion.

Excellent Shear Stability – ensures viscosity control at high temperatures and high shear conditions thereby providing maximum 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

Typical Physico-Chemical Data:MAK Ultra Supreme 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 | 0.860 |
| Kinematic Viscosity @40°C, cSt | ASTM D445 | 105.9 |
| Kinematic Viscosity @100°C, cSt | ASTM D445 | 14.20 |
| Viscosity Index | ASTM D2270 | 136 |
| Copper Corrosion, 100°C, 3 hrs. | ASTM D130 | 1a |
| Flash Point, °C | ASTM D92 | 226 |
| 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.