

MAK CD 10W

High performance oil for engine and hydraulic system of off-highway equipment

MAK CD 10W is formulated with very high quality base oils and highly shear stable additive technology. It is uniquely designed to optimise the performance of engine and hydraulic systems. The oil offers enhanced protection to hydraulic system components even in high pressure systems. This oil is formulated with high quality detergency additive that minimises engine deposits through excellent sludge and varnish control. It is also designed for power transmission systems in earthmoving machinery and off-highway construction equipment operating under severe conditions such as heavy loads, dusty atmosphere and extreme ambient temperatures. MAK CD 10W resists oxidation and offers effective low and high ambient temperature performance due to high viscosity index.

Applications:

MAK CD 10W is suitable for use in naturally aspirated, supercharged and turbo charged diesel engines operating round the clock and under heavy loads applications such as off-highway, construction equipment, earthmoving equipment. It is also recommended for hydraulic systems of earthmoving and off-highway equipment.

Performance/ Benefits:

Resistance to Oxidation and Thermal Degradation – resists the effects of oxidising agents and thermal stress. Extends life of transmission components due to minimal deposits formation tendencies.

Excellent Anti-wear Capability – high level of anti-wear protection to the engine and hydraulic system components. Enhances equipment life and reliability, reduces breakdowns.

Anti-foaming Characteristics – exhibits low foaming tendency and ensures effective lubrication and functioning under all operating conditions.

Excellent Rust and Corrosion Protection – prevents corrosive wear and reduces down time and maintenance cost.

Good TBN Retention – provides excellent control over the corrosive acids formed due to oil oxidation and combustion process.

Better Low Temperature Lubrication – facilitates easy start-up at low ambient temperatures. Reduces wear at low ambient temperatures.

Performance Level/ Specification:

Meets the performance benchmarks of

- API CF

Typical Physico-Chemical Data: MAK CD 10W

Characteristics	Method	Value
SAE Viscosity Grade	SAE J300	10W
Color	Visual	Brown
Appearance	Visual	Clear and Bright
Density @29.5°C, g/cc	ASTM D1298	0.850
Kinematic Viscosity @40°C, cSt	ASTM D445	34.1
Kinematic Viscosity @100°C, cSt	ASTM D445	5.7
Viscosity Index	ASTM D2270	105
Copper Corrosion, 100°C, 3 hrs.	ASTM D130	1a
Flash Point, °C	ASTM D92	210
Pour Point, °C	ASTM D97	-30
Foaming Tendency	ASTM D892	
a) Sequence I		0/0
b) Sequence II		10/0
c) Sequence III		0/0

Storage & Handling:

The product should be stored inside. Keep it properly sealed to avoid contamination. Avoid freezing. Shelf life is 5 yrs. 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.