

# MAK CD

## Description

These oils are formulated with high quality detergents that minimize engine deposits due to excellent sludge and varnish control.

## Application

This is recommended for use in naturally aspirated, supercharged and turbo charged diesel engines operating round the clock and under heavy loads in applications such as stationary DG-sets, off-highway, construction equipment, earthmoving equipment. SAE 10W grade is also recommended for use in certain earthmoving equipment as Transmission oil.

## Benefits

- Good oxidation and thermal stability.
- The multigrade version is suitable for all seasons and helps in reducing oil consumption.
- Minimizes engine deposits.

## PERFORMANCE LEVEL

- API CD / CF
- IS 13656 : 2002 Type EDL2 & EPL1
- US MIL-L-45199B
- UK DEF 2101D
- Caterpillar series 3

## Technical Specifications

Characteristics	ASTM	MAK CD				
		10W	30	40	50	20W-40
Appearance	--	Clear & Bright	Clear & Bright	Clear & Bright	Clear & Bright	Clear & Bright
Colour, Visual Observation	--	Brown	Brown	Brown	Brown	Brown
Density @15°C	D1298	0.8880	0.8980	0.8892	0.9033	0.8877
K.V at 100° C, cSt	D445	5.7	11.1	14.3	18.50	14.0
Viscosity Index	D2270	105	102	98	97	116
Flash Point, (COC), °C	D92	210	238	246	248	228
Pour Point, °C	D97	-30	-9	-9	-9	-21
Copper corrosion @ 100°C for 3 hrs.	D130	1a	1a	1a	1a	1a

All the mentioned values are typical which may vary from batch to batch.

## Storage and Handling

- Indoor Storage is always preferable.
- Barrels should be kept horizontally with bung position at 3 O'clock 9 O'clock position.
- Barrels should be kept away from dusty or heated areas.
- During handling any contact with dust must be avoided.

## Health & Safety

This grade is not hazardous under normal conditions of use. For further guidance Material Safety Data Sheet (MSDS) may be referred.

## Advice

For any further advice on applications or otherwise, please contact the nearest Bharat Petroleum territory office or Technical Services department at the address given below.

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