

# MAK CF

## Description

These oils are formulated from superior quality base oils and carefully selected additives.

## 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 anti-wear characteristics.
- Presence of detergent-dispersant agent.

## PERFORMANCE LEVEL

- API CF / CD
- IS 13656 : 2002 Type EDL2

## Technical Specifications

Characteristics	ASTM	MAK CF				
		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.

### **Bharat Petroleum Corporation Ltd.**

Product and Application Development Dept.  
 BPCL 'A' Installation, Sewree Fort Road, Sewree (East)  
 Mumbai -400015  
 E-mail: [MAKcustomercare2@bharatpetroleum.in](mailto:MAKcustomercare2@bharatpetroleum.in)  
 Tel No.: 022-24176351