

MAK-CH4

Description

MAK-CH4 is latest generation heavy duty diesel engine oil formulated for lubrication of modern diesel engines meeting Euro III on-highway exhaust emission norms and operating under server conditions. It uses exclusive additive formulations in conjunction with highly Hydro processed Group II plus base oils to deliver longer life and enhanced protection relative to their predecessors.

Application

It is recommended for use in latest generation Diesel engine vehicles to meet Euro-II and Euro-III emission norms. It is highly suitable for both constant high speed engines and stop-start service under severe working conditions.

- Diesel passenger cars
- On highway heavy duty trucks
- Construction and Mining
- Agricultural Equipments

This oil has been licensed by American Petroleum Institute (API) to market under their 'DONUT' symbol.

Benefits

- **UNIQUE FORMULATION** Premium detergent and dispersant additive technology for cleaner engine
- **ENHANCED ENGINE LIFE** Excellent protection against oxidation, rust, corrosion and better oil film protection at high temperature providing increased resistance to thermal breakdown.
- **LONG OIL SERVICE LIFE** Group II Plus base oil and latest generation dispersants used in this oil help in handling higher amount of soot and thereby controlling the viscosity increase.
- **GOOD TBN RETENTION** Gives long-term protection against corrosion of ferrous and non-ferrous metals.
- **APPROVED BY LEADING ENGINE MAKERS**

PERFORMANCE LEVEL

- API CH-4 / SJ
- ACEA A3-98 / B3-98 / E3-96 Issue 2
- MB 228.3

Technical Specifications

Characteristics	ASTM	MAK CH4 15W-40
Appearance	--	Clear & Bright
Color, Visual Observation	--	Brown
Density @15°C, gm/ml	D1298	0.8885
K.V at 100° C, cSt	D445	14.20
Copper Corrosion @ 100° C for 3 hrs	D130	1a
Flash Point, (COC), °C	D92	232
Viscosity Index	D2270	130
Pour Point, °C	D97	-24
TBN, mg KOH/g	D2896	10.01
Sulphated Ash%	D874	1.3

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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