

# **MAK GEM**

## **Description**

MAK GEM is premium quality low ash heavy –duty Gas Engine Oil suitable for highly rated spark ignition 4-stroke mobile engines requiring low ash level.

It is a blend of specially selected High Viscosity Index base oils and carefully balanced performance additive consisting of ash-containing and ash-less detergents, dispersants. These oils have good anti-oxidation, anti-wear, anti-corrosion and anti-foaming agents.

## **Application**

- It is specially designed for use in Mobile Gas Engines having slider follower and also suitable for Gas Engines having roller followers also.
- MAK GEM 20W-50 has been approved by M/s Ashok Leyland for buses and commercial vehicles operating on CNG
- MAK GEM 15W-40 has been approved for use in Cummins B & C series engine

## **Benefits**

- Additional anti-wear protection to slider followers used in mobile engines.
- Oxidation & Corrosion resistance: Being blended with best quality base oils gives longer oil life and lower maintenance troubles.
- Trouble free cold start
- Keeps piston and engine clean thus ensuring smooth engine operation
- Compatible with catalytic exhaust system fitted in the vehicle
- Meets the ash and TBN requirements of major OEMs

## **PERFORMANCE LEVEL**

- API CF

## Technical Specifications

Characteristics	ASTM	MAK GEM	
		15W-40	20W-50
Appearance	--	Clear & Bright	Clear & Bright
Colour, Visual Observation	--	Brown	Brown
Density @15°C	D1298	0.8884	0.8884
K.V at 100° C, cSt	D445	14.5	19.3
Viscosity Index	D2270	137	120
Flash Point, (COC), °C	D92	238	240
Pour Point, °C	D97	-24	-21
Copper corrosion @ 100°C for 3 hrs.	D130	1a	1a
Foaming Tendency / Stability: Qty. of foam in ml	D892		
a) Sequence I		Nil / Nil	Nil / Nil
b) Sequence II		10 / Nil	10 / Nil
c) Sequence III		Nil / Nil	Nil / Nil

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 as much as possible
- During handling any contact with dust must be avoided.

## Health and Safety

These oils are not hazardous under normal conditions of use. For further guidance appropriate Material Safety Data Sheet 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