

# MAK GES XLA

## Description

**MAK GES XLA 40** is premium quality Gas Engine Oils for use in highly rated spark ignition stationary engines requiring 'low ash' oil.

It is a blend of specially selected high quality base oils and carefully balanced performance additives.

## Application

Recommended for use in highly rated spark ignition stationary natural gas engines used for power generation / gas gathering / compression requiring 'low ash' oil.

It is approved for Cummins B & C series engines. It also meets specifications for engines with slider followers.

It has been tested in a CNG engine with slider followers.

## Benefits

- Consists of ash-containing and ash-less detergents – dispersants
- Contains anti – oxidation, anti – wear and anti – corrosion additives
- Good anti – foaming agents
- It provides an excellent oxidation, nitration, deposit and wear control.

## PERFORMANCE LEVEL

- API CF
- Also meets the catalyst manufacturers' limit of phosphorus content of < 300 ppm (applicable for stationary engines).
- *Received No Objection Letter from Wartsila, Finland for 40 field trials in their Gas Engines*

## Technical Specifications

Sr. No.	Characteristics	Test Method	Requirements	MAK GES XLA
1	SAE grade		40	40
2	Kinematic Viscosity at 100°C, cSt	ASTM D 445	12.5 - 16.3	14.6
3	Viscosity Index	ASTM D 2270	95 Minimum	105
4	Pour Point°C	ASTM D 97	-12 Max	-18
5	Flash Point (COC), °C	ASTM D 92	200 Minimum	252
6	Foaming Characteristics	ASTM D 892		
	Stability / Tendency, Qty ml of foam			
	a) Sequence I		10 /Nil	Traces/Nil
	b) Sequence II		10/Nil	Traces/Nil
	c) Sequence III		10/Nil	Traces/Nil
7	Total Base Number, mg KOH/gm	ASTM D 2896	5 minimum	5.5
8	Sulphated Ash, % wt.	ASTM D 874	-	0.55

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 at 3'o'clock 9 'o clock position
- Barrels should be kept away from dusty or heated areas as much as possible.

## 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.

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