

# MAK GES LA 30

Low ash stationary gas engine oil for long life and protection

MAK GES LA 30 is a premium quality oil blended for use in heavy duty, 4-stroke and spark-ignition gas engines requiring low ash oil. It has been blended from high viscosity index base stock. Special additive chemistry imparts excellent resistance to oxidation, nitration and thermal degradation of the oil. It offers very high control of deposit, formation of harmful acids and wear of engine components. MAK GES LA 30 oil is designed to help prevent knocking and thereby enable engines to run at full load and optimum efficiency. Viscosity control allows reduction in friction losses. It offers excellent protection to engine components against rust and corrosion. It is also designed to meet the demands of 'lean burn' technology employed by modern engines and is compatible with the catalyst of catalytic converters.

**Applications:**

MAK GES LA 30 oil is recommended for all types of stationary, 4-stroke and spark-ignition engines running on natural gas and requiring low ash oil. The engines can be naturally aspirated or turbocharged and medium to high speed. It is suitable for applications where natural gas engines are used for gas gathering/ compression, power generation etc.

**Performance/ Benefits:**

**Excellent Resistance to Oxidation and Nitration** – outstanding resistance to the effects of oxidising agents and nitration. Resists viscosity increase, filter deposits and formation of acid. Minimises sludge formation, filter choking piston ring and valve sticking. Ensures reliability, longer drain period and less maintenance.

**Excellent Antiwear Characteristics** – protects critical engine parts like heavily loaded valve train components, pistons, liners, bearings and gear trains. Enhances engine performance and reliability.

**Clean Engine** – controls deposits in combustion chamber, on pistons, valves and spark plugs to maintain maximum efficiency. Highly effective detergency and dispersancy additives control the carbon formation and varnish deposits to reduce oil consumption and maintain engine cleanliness even during extended drain interval.

**Low Oil Consumption** – low engine oil volatility minimises evaporation, extends operating life and reduces top-up oil quantity.

**Extended Drain Interval** – enhances operating life of oil, controls viscosity, reduces sludge and deposits formation through high quality base stock and additive system. Increases engine availability. For optimum results regular in-use oil analysis is strongly recommended.

**Resistance to Rust & Corrosion** – provides excellent protection from rust and corrosion.

**Performance Level/ Specification:**

- API CF

**Typical Physico-Chemical Data: MAK GES LA 30**

Characteristics	Method	Value
Appearance	Visual	Clear & Bright
Color	Visual	Brown
SAE Viscosity Grade		30
Density, g/cc @ 15°C	ASTM D1298	0.868
Kinematic Viscosity @40°C, cSt	ASTM D445	88.0
Kinematic Viscosity @100°C, cSt	ASTM D445	11.2
Viscosity Index	ASTM D2270	115
Flash Point, COC, °C	ASTM D92	246
Pour Point, °C	ASTM D97	-9
Copper Corrosion, 100°C, 3 hrs.	ASTM D130	1a
Total Base Number, mg KOH/ g	ASTM D2896	5.6
Sulphated Ash, %wt	ASTM D874	0.48

**Storage & Handling:**

The product should be stored inside. Keep it properly sealed to avoid contamination. Avoid freezing.

**Health & Safety:**

This oil is unlikely to be hazardous when properly used in recommended applications. Contamination of the oil from other oils, greases, chemicals, dirty water etc. can occur during the use. It should be avoided. Regular monitoring of the in-use product is recommended.