



PETRONAS GEO S 40

Premium Quality Natural Gas Engine Oil

PETRONAS GEO S 40 is a heavy-duty, low ash, premium quality gas engine oil specially designed for the lubrication of a wide range of spark-ignited gas-fuelled engines. Specially formulated with premium quality unconventional base oils and advanced high performance detergent-dispersant additives technology to provide excellent chemical and thermal stability, excellent resistance to oxidation and nitration, excellent sludge and ash deposits control, superior engine cleanliness and excellent anti-corrosion properties.

Its advanced additive technology also minimize wear of rings, liners and bearing and curtails valve seat wear in turbocharged four cycle engines.

Applications

Recommended for use in the lubrication of the crankcase and compression cylinders of spark-ignited two-stroke and four stroke gas-fuelled (natural gas or LPG) engines made by Wartsila, Rolls-Royce, MWM, Caterpillar, Waukesha, Dresser Rand and other gas engines.

Features and Benefits

- Excellent piston and engine cleanliness for long, efficient operation and reduced overhaul costs
- Optimize reserve alkalinity level (TBN of 5.6) to neutralize acids and provide enhanced corrosion protection
- Exceptional oxidation and nitration resistance minimizes oil thickening, particularly under leaner air/fuel ratios and resist oil filter blockage. Also minimizes acid number increase, providing protection against bearing corrosion
- Balanced/optimized sulphated ash level to provide enhanced valve recession protection in four-stroke engines
- Excellent thermal stability and resistance to coking
- Low phosphorus content ensures NSCR-type exhaust system catalysts compatibility to prolong unit's service

Specifications, Approval and Recommendation

PETRONAS GEO S 40 meets or exceeds the requirements of;

- API CF
- Wartsila Approved
- Rolls Royce Approved
- Dresser Rand Category 3 requirements
- Waukesha low ash definition (0.35% ash minimum)
- Caterpillar gas engine requirements

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Typical Properties

Characteristics	Typical Value
Density @ 15°C, Kg/l	0.8830
Pour Point, °C	-12
Flash Point, °C	240
Kinematic Viscosity, cSt @ 40 °C @ 100 °C	133.7 14.5
Viscosity Index	108
Sulphated Ash, % wt	0.46
Total Base Number, mgKOH/g	5.6
ASTM Color	2.0

* All technical data is provided for reference only.

Health, Safety and Environment

For further assistance on product MSDS, recommendation or technical queries, please liaise with the regional technical services engineer or contact HQ technical engineers.