Mobil Pegasus™ 1

Mobil Industrial , Chile

Gas Engine Oil

Product Description

Mobil Pegasus™ 1 is a high performance synthetic gas engine oil designed to meet the highest performance requirements of the most demanding naturally aspirat turbocharged stoichiometric and lean-burn gas engines. It is formulated from wax-free synthetic base oils and a balanced additive system to provide performance unattainable with conventional mineral oil-based gas engine oils. The potential benefit is an improved bottom line through improved engine and oil life, re maintenance costs and lower fuel costs.

The unique formulation of Mobil Pegasus 1 minimises ash deposits, piston land and ring belt deposits, liner scuffing, and valve seat and valve face wear. It has outsta resistance to oxidation and the inherently high viscosity index of the synthetic base oil components ensure a protective lubricant film at high temperatures well abo limit for mineral oil-based products. Mobil Pegasus 1 exhibits low volatility, a performance characteristic that helps reduce oil consumption and improve valve lubr performance measurably. Its unique viscometrics and low traction coefficient reduce power losses and provide potential fuel economy benefits, particularly variable load, speed and temperature conditions.

Features and Benefits

The state-of-the art technology used in Mobil Pegasus 1 is designed to provide a high level of engine performance in a wide range of high-output gas engir outstanding oxidation resistance and thermal stability provide extended service life for both the engines and the oil. In addition, the unique properties of Pegasu result in lower internal friction under cold start-up and hot running conditions resulting in reduced wear and potentially lower fuel consumption. The use of this p will result in lower maintenance costs through its extended service life capability, reduced filter costs and improved engine life.

Features	Advantages and Potential Benefits
Balanced Synthetic Formulation	Extended drain intervals and improved engine life Longer filter life potential Cleaner engines
Outstanding Oxidation and Thermal Stability	Reduced levels of ring land and ring groove carbon Improved valve guide performance Lower levels of carbon/coking deposits
Excellent High and Low Temperature Performance	Effective lubrication under cold startup conditions Easier engine cranking at low temperatures Improved engine protection under high temperature conditions
Naturally High Viscosity Index	Wide temperature performance
Low Volatility	Reduced oil consumption Reduced deposit formation in critical engine areas
Exceptional Anti-wear and Anti-scuff Protection	Resists wear and scuffing of liners and pistons particularly in high BMEP engines
Low Traction Coefficient	Potential for lower fuel costs Improved engine power Easier starting

Applications

- Mobil Pegasus 1 is recommended for a wide range of gas engine modes.

- The product is particularly suited for high speed, four-cycle turbocharged and naturally aspirated gas engines requiring a nominal 0.5% ash gas engine oil.
- It is an excellent lubricant for both stoichiometric and lean-burn designs
- It is ideally suited for cogeneration and ebullient cooled applications because of its wide temperature range capability and extended engine protection and l life.
- Mobil Pegasus 1 is fully compatible with all seals commonly used in gas engines and with mineral oils but admixture with mineral oils will lower the perfor benefits that can be obtained from this outstanding lubricant
- May be used with gas engines using alternative energy sources for fuel gas containing up to 0.3% sulphur as hydrogen sulphide

Specifications and Approvals

This product has the following approvals:
MAN M 3271-1
MAN M 3271-2
MWM TR 0199-99-2105, Lube Oils for Gas Engines
VOLVO CNG FUELED BUS ENGINES
Wartsila W25SG
INNIO Waukesha Engine 220GL Applications Using Pipeline Quality Gas
INNIO Waukesha Engine Cogeneration / Gas Compression Applications Using Pipeline Quality Gas
Caterpillar Energy Solutions TR 2105, Lube Oils for Gas Engines (CG132, CG170, CG260)

This product meets or exceeds the requirements of:
Caterpillar

Properties and Specifications

Property	
Grade	SAE 15W-40
Ash, Sulfated, mass%, ASTM D874	0.5
Flash Point, Cleveland Open Cup, °C, ASTM D92	238
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445	13.0
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	94
Pour Point, °C, ASTM D97	-48
Viscosity Index, ASTM D2270	137
Density 15 C, kg/L, CALCULATED	0.846
Base Number - Xylene/Acetic Acid, mg KOH/g, ASTM D2896 (*)	6.8

(*) use of other ASTM approved solvents may yield different results

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.as

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COPEC S.A.

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect pro performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without nc All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com
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