



Mobil Pegasus 705

Gas Engine Oil

Product Description

Mobil Pegasus 705 is a premium high performance SAE 40 gas engine oil formulated to lubricate a wide range of natural gas fuelled engines. It is recommended for the newer stoichiometric and lean burn high-speed four-cycle engines that are sensitive to valve face and seat wear. This oil is also recommended for the lubrication of the gas compressors and wide range of engines requiring low ash oil. Pegasus 705 is formulated from select high quality, mineral base oils and an advanced technology additive system engineered to provide excellent protection of engine and compressor components and reduced levels of combustion chamber deposits. It exhibits exceptional chemical stability and resistance to oxidation and nitration resulting in longer oil life and lower filter replacement costs. These performance advantages combined with outstanding detergency and dispersancy properties minimise the formation of ash and carbon deposits that could result in poor engine performance and detonation.

Pegasus 705 exhibits excellent anti-corrosion properties that prevent corrosive wear in cylinders, valve areas and bearings resulting in longer engine life. Its high level of anti-wear performance reduces wear of rings, liners, and bearings. It also provides exceptional valve seat and face protection and reduces the wear and deposit formation in the critical valve guides of highly loaded turbocharged four-cycle engines.

Features and Benefits

Mobil Pegasus 705 gas engine oil provides for cleaner engines, lower wear rates and improved engine performance. The product is particularly beneficial in increasing valve life and engine performance in the newer lean-burn, design high-speed four-cycle engines operating under heavy loads. The result is reduced maintenance costs and improved production capacity. The excellent chemical and oxidation stability results in longer drain periods and reduced filter costs. Pegasus 705 reduces ash and carbon formation in combustion chambers resulting in lower maintenance costs while improving engine performance and reducing fuel costs.

Features	Advantages and Potential Benefits
Excellent Anti-wear and Anti-scuff Properties	Lower wear of engine components Reduced scuffing of liners of highly loaded gas engines Provides excellent break-in protection
Exceptional Oxidation and Chemical Stability	Cleaner engines Extended drain intervals Reduced filter costs Excellent resistance to oxidation and nitration Reduces coking and formation of undercrown deposits
Low Ash Formulation	Reduces valve seat, face and guide wear Controls combustion chamber ash formation and improves spark plug performance Improved engine performance Lower fuel costs
Corrosion Resistance	Reduces valve guide wear in four stroke-cycle gas engines Protects bearings and internal components
Outstanding Detergency and Dispersancy Properties	Cleaner engines Improved upper cylinder performance Longer filter life Lower maintenance costs

Applications

- High-speed lean-burn and stoichiometric gas engines sensitive to valve seat recession
- Crankcases and power cylinders of spark-ignited two and four-stroke cycle gas engines
- Recommended for applications requiring low ash formulations
- Reciprocating natural gas compressor cylinders
- High output or ambient rated engines operating at or in excess of rated capacity under high temperatures
- Engines operating on fuel containing low levels of hydrogen sulphide

Specifications and Approvals

Mobil Pegasus 705 meets or exceeds the requirements of:

Caterpillar	X
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Mobil Pegasus 705 has the following builder approvals:

MTU Category 1	X
PERKINS GAS ENGINE OIL - NATURAL GAS	X
GE JENBACHER TI 1000-1107	X
MWN GmbH TR 0199-99-2105/7, Lube Oils for Gas Engines	X
WARTSILA 34SG	X
WARTSILA 32 DF	X
WARTSILA 28SG	X
WARTSILA 220 SG	X
WARTSILA NSD W25SG	X
WARTSILA NSD W12V150SG, W12V175SG, W16V175SG	X
MAN approval 3271-2	X

Typical Properties

Mobil Pegasus 705

SAE Grade	40
Viscosity, ASTM D 445	
cSt @ 40° C	126.2
cSt @ 100° C	13.2
Viscosity Index, ASTM D 2270	98
Sulfated Ash, wt%, ASTM D 874	0.5
Total Base #, mg KOH/g, ASTM D 2896	5.6
Pour Point, °C, ASTM D 97	-18
Flash Point, °C, ASTM D 92	252
Specific Gravity 15.6° C/15.6° C, ASTM D 1298	0.887

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are

available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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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 product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com. ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

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