# Mobil Pegasus™ 705

Mobil Industrial , Kazakhstan

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

| Features | Advantages and Potential Benefits |
|---|---|
| | Lower maintenance costs |

## Applications

- High-speed lean-burn and stoichiometric gas engines sensitive to vlve 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

| This product has the following approvals: |
|---|
| INNIO Jenbacher TI 1000-1108 (Class A fuel gas, Type 9) |
| INNIO Jenbacher TI 1000-1109 (Class A fuel gas, Type 2, 3, 4 & 6) |
| INNIO Jenbacher TI 1000-1109 (Class B fuel gas, Type 4 & 6) |
| MAN M 3271-2 |
| MTU Gas Engines S4000 L32, L33 using natural gas |
| MWM TR 0199-99-2105, Lube Oils for Gas Engines: TCG2016 < 48.5 kWe / cyl. TCG2020 < 95.0 kWe / cyl. TCG2032 < 260.0 kWe / cy |
| Perkins Gas Engine Oil - Natural Gas |
| Wartsila 220SG |
| Wartsila 28SG |
| Wartsila 32DF |
| Wartsila 34SG |
| Wartsila W12V150SG, W12V175SG, W16V175SG |
| Wartsila W25SG |
| Rolls-Royce Solutions Augsburg (former MTU Onsite Energy) Gas Engines Series 400 - all engines with natural gas and propane gas |
| INNIO Jenbacher TI 1000-1109 (Class C fuel gas, Type 4A, 4B & 4C) |
| MTU Gas Engines S4000 L61, L62, L63 using natural gas |

| This product meets or exceeds the requirements of: |
|---|
| Caterpillar |

## Properties and Specifications

| Property | |
|---|---|
| Grade | SAE 40 |
| Pour Point, °C, ASTM D97 | -18 |
| Ash, Sulfated, mass%, ASTM D874 | 0.5 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 13.2 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 252 |
| Density 15 C, kg/L, CALCULATED | 0.887 |
| Base Number - Xylene/Acetic Acid, mg KOH/g, ASTM D2896 (*) | 5.7 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 126 |
| Viscosity Index, ASTM D2270 | 98 |

(*) 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.aspx

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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

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