# Mobil Pegasus™ 710

Mobil Industrial , Finland

Gas Engine Oil

## Product Description

Mobil Pegasus™ 710 is a premium performance gas engine oil primarily intended for the lubrication of modern high-speed four-cycle engines where oil consumption is very low. These engines are generally of the lean-burn design where increased manifold pressures prevent sufficient lubricant from getting into the valve guide areas. This oil is also recommended for the lubrication of gas compressors. It is formulated from high quality mineral base oils and an advanced medium ash additive system designed to provide excellent protection of engine and compressor components. It exhibits a high level of chemical stability and resistance to oxidation and nitration. Pegasus 710 offers outstanding resistance to valve train wear and protection against deposit formation. These performance advantages combined with its very effective detergency and dispersancy system control the formation of ash and carbon deposits that could result in poor engine performance and detonation.

Its high reserve alkalinity and TBN retention also makes it suitable for engines operating on fuels that contain low amounts of corrosive materials such as hydrogen sulphide. The excellent anti-corrosion properties prevent corrosive wear in cylinders, valve areas and bearings resulting in longer engine life. Mobil Pegasus 710 anti-wear and anti-scuff performance assures minimal piston scuffing, scoring and cylinder and ring wear.

## Features and Benefits

Mobil Pegasus 710 Gas Engine Oil provides cleaner engines, lower wear rates and improved engine performance. The use of this product will result in reduced maintenance costs and improved production capacity. Their excellent chemical and oxidation stability results in longer drain periods and reduced filter costs. The high reserve alkalinity of this product allows its use in engines operating on fuels with low amounts of corrosive materials in the fuel gas.

| Features | Advantages and Potential Benefits |
|---|---|
| Outstanding 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 |
| High Oxidation and Chemical Stability | Cleaner engines<br>Extended drain intervals<br>Reduced filter costs<br>Excellent resistance to oxidation and nitration |
| Innovative Medium Ash Formulation | Protects valve seats and faces on four stroke-cycle engines<br>Controls combustion chamber ash formation and improves spark plug performance |
| Excellent Corrosion Resistance | Reduces valve guide wear in four stroke-cycle gas engines<br>Protects bearings and internal components |
| Exceptional Reserve Alkalinity | Controls formation of acids in the oil<br>Protects engine components from acidic attack |

## Applications

- Spark ignited four-cycle gas engines with very low oil consumption
- Engines experiencing valve train wear and corrosion

- Engines operating on fuel containing low levels of sulphur and chlorine compounds
- Reciprocating compressor cylinders compressing natural gas
- High output or ambient rated engines operating at or in excess of rated capacity under high temperatures

## Specifications and Approvals

| This product has the following approvals: |
|---|
| INNIO Waukesha Engine Cogeneration / Gas Compression Applications Using Pipeline Quality Gas |
| Rolls-Royce Solutions Augsburg (former MTU Onsite Energy) Gas Engines Series 400 - all engines with biogas, sewage gas and landfill gas |
| MAN M 3271-4 |
| INNIO Jenbacher TI 1000-1109 (Class B fuel gas, Type 2 & 3) |
| MAN Energy Solutions Augsburg (Heritage MAN B&W) 4 Stroke medium speed engines for LNG operation |
| GUASCOR All natural gas engine model types (except 86EM and 100EM) |

## Properties and Specifications

| Property | |
|---|---|
| Grade | SAE 40 |
| Ash, Sulfated, mass%, ASTM D874 | 1.0 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 249 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 13.2 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 121 |
| Pour Point, °C, ASTM D97 | -15 |
| Specific Gravity, 15.6 C/15.6 C, ASTM D1298 | 0.896 |
| Viscosity Index, ASTM D2270 | 98 |
| Density 15 C, kg/L, CALCULATED | 0.896 |
| 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.aspx

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ExxonMobil Finland Oy Ab
Satamatie 10
21100 Naantali - FINLAND

+358 (0) 10 40 8500
http://www.mobil.fi

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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