



Mobil Pegasus™ 610 Ultra

Mobil Industrial , New Zealand

Gas Engine Oil

Product Description

Mobil Pegasus™ 610 Ultra is a high performance natural gas engine oil primarily intended for the lubrication of modern medium and high speed four-cycle engines operating on fuel that contains corrosive materials such as hydrogen sulphide or halogens (compounds containing chlorine, fluorine, etc.). This product is specially developed to cope with aggressive gases with high levels of hydrogen sulphide which significantly limits the oil drain intervals and with high levels of siloxanes whose abrasive effects once burnt can significantly increase wear and reduce engine life.

Mobil Pegasus™ 610 Ultra is a 1.0% sulfated ash, high Total Base Number (TBN) gas engine oil with exceptional reserve alkalinity designed to offset the negative effects of these corrosive materials on engine components.

Mobil Pegasus™ 610 Ultra provides excellent anti-wear and especially anti-scuff performance assuring minimal piston scuffing, scoring and cylinder and ring wear. This product can also be used for the lubrication of the reciprocating compressors in landfill and biomass gas applications.

Mobil Pegasus™ 610 Ultra has a high level of wear protection which helps reduce the scuffing of the liners and extend the overhaul periods and significantly longer operating period.

Features and Benefits

Mobil Pegasus™ 610 Ultra gas engine oil provides an additional level of protection in those applications using highly contaminated fuel where piston scuffing, high deposit formations and very short drain interval were observed.

| Features | Advantages and Potential Benefits |
|---|---|
| High TBN and Reserve Alkalinity | Controls wear and corrosion when using contaminated gas |
| | Protects valve seats and faces on four-cycle engines |
| | Controls combustion chamber ash formation and improves spark plug performance |
| Outstanding Anti-wear and Anti-scuff Properties | Lower wear of engine components |
| | Reduced scuffing of liners in highly loaded gas engines |
| | Provides excellent break-in protection |
| Excellent Oxidation and Chemical Stability | Cleaner engines |
| | Extended oil drain intervals even with highly contaminated fuels |
| | Reduced oil filter costs |
| Effective Corrosion Resistance | Excellent resistance to oxidation and nitration |
| | Reduces valve guide wear in four-cycle gas engines |
| | Protects bearings and internal components |

| Features | Advantages and Potential Benefits |
|---|---|
| Exceptional Detergent / Dispersant Properties | Neutralises formation of acids in the oil |
| | Protection of upper cylinder and valve train components |

Applications

Gas engines operating on fuel that contains moderate to high levels of hydrogen sulphide (H₂S) and high levels of siloxanes which turn to silicon dioxide in the combustion process causing significant deposits and liner wear.

Engines operating on fuel containing other corrosive components such as TOHCl (Total Organic Halides as Chloride)

Reciprocating compressors operating on natural gas that contains sulphur or halogens

High output or naturally aspirated engines operating at or in excess of rated capacity under high temperatures

Specifications and Approvals

| This product has the following approvals: |
|---|
| MAN M 3271-4 |
| Caterpillar Energy Solutions TR 2105, Lube Oils for Gas Engines (CG132, CG170, CG260) |
| MWM TR 0199-99-2105, Lube Oils for Gas Engines |
| INNIO Jenbacher TI 1000-1109 (Class C fuel gas, Type 2 & 3) |
| INNIO Jenbacher TI 1000-1109 (Class B fuel gas, Type 2 & 3) |
| MTU Onsite Energy Gas Engines Series 400 - all engines without SCR catalyst operated with biogas. |

Properties and Specifications

| Property | |
|--|--------|
| Grade | SAE 40 |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 12.9 |
| Viscosity Index, ASTM D2270 | 107 |
| Density @ 15.6 C, g/ml, ASTM D1298 | 0.875 |
| Pour Point, °C, ASTM D97 | -30 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 259 |
| Ash, Sulfated, mass%, ASTM D874 | 1.0 |

| Property | |
|--|------|
| Base Number - Xylene/Acetic Acid, mg KOH/g, ASTM D2896 | 10.3 |

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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