Mobil Pegasus™ 610 Ultra

Mobil Industrial , Estonia

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 agressive 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
	Excellent resistance to oxidation and nitration
Effective Corrosion Resistance	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, mm2/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

(*) 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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