



El Mar® W GEO

Phillips 66® El Mar W GEO is a high-quality, mid-ash, dispersant-detergent gas engine oil designed for use in naturally aspirated and moderately to highly turbocharged 4-stroke cycle natural gas engines. It is particularly recommended for use in natural gas engines and dual-fuel engines burning sour gas or landfill gas.

El Mar W GEO is formulated to provide excellent resistance to oxidation and nitration, protect against piston scuffing and wear, and minimize the formation of engine sludge and piston deposits for good engine cleanliness. It has a high alkaline reserve (TBN) to protect engines operating under corrosive conditions, such as when burning sour gas, digester gas or landfill gas. It also is recommended for use in other 4-stroke cycle natural gas engines that require a mid-ash gas engine oil containing 1% (nominal) sulfated ash.

Applications

- 4-stroke cycle gas and dual-fuel engines burning sour gas or landfill gas
- 4-stroke cycle gas engines in wastewater treatment plants fueled by digester gas
- 4-stroke cycle converted irrigation engines running on natural gas or LPG
- Other 4-stroke cycle natural gas engines where the manufacturer specifies a mid-ash gas engine oil

Features/Benefits

- Excellent resistance to oxidation and nitration
- High alkaline reserve to combat acidic combustion by-products when burning sour gas
- High dispersancy protects against sludge and varnish formation
- Protects against scuffing and wear
- Protects against rust and corrosion
- Excellent low-temperature performance
- Does not contain any bright stock, which can cause harmful carbon deposits

Mid-Ash Natural Gas Engine Oil





El Mar® W GEO

Typical Properties	
SAE Grade	30/40
Specific Gravity @ 60°F	0.881
Density, lbs/gal @ 60°F	7.34
Color, ASTM D1500	3.0
Flash Point (COC), °C (°F)	240 (464)
Pour Point, °C (°F)	-30 (-22)
Viscosity, Kinematic	
cSt @ 40°C	132
cSt @ 100°C	14.1
Viscosity Index	104
Sulfated Ash, ASTM D874, wt %	0.94
Total Base Number (TBN), ASTM D2896	9.0
Phosphorus, wt %	0.079
Zinc, wt %	0.088

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.

09-13-2016

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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