



El Mar® GEO

Phillips 66® El Mar GEO is a high-quality, non-detergent, ashless gas engine oil designed primarily for use in Ajax 2-stroke cycle natural gas engines. The SAE 15W-40 viscosity grade meets the low-temperature viscosity requirements of Ajax engines where cold starts and frequent start/stop cycles may be encountered.

El Mar GEO is formulated to provide excellent resistance to oxidation and nitration, protect against ring and liner wear, minimize the formation of sludge and piston deposits for excellent engine cleanliness, and protect against corrosion. The absence of ash-forming additives results in clean intake ports to help maintain peak engine performance, and also helps extend spark plug life in spark-ignited gas engines. This oil is formulated to meet the requirements of gas engines equipped with exhaust aftertreatment devices.

Applications

- Ajax 2-stroke cycle natural gas engines (SAE 15W-40)
- Older, horizontal-type 2-stroke cycle natural gas engines, such as those manufactured by Cooper-Bessemer and Worthington (SAE 30/40)

El Mar GEO Oil is approved for use under the following OEM specification:

- DuPont Specification A4V4

Note: El Mar GEO Oil is not recommended for use in high-speed, 4-stroke cycle natural gas engines.

Features/Benefits

- Ashless formulation helps minimize port deposits
- Protects against sludge and varnish formation
- Excellent resistance to oxidation and nitration
- Protects against scuffing and wear
- Protects against rust and corrosion
- Excellent water-separating properties
- Low carbon-forming tendency
- Compatible with emissions system catalysts
- Does not contain any bright stock, which can cause harmful carbon deposits

**Non-Detergent,
Ashless Natural
Gas Engine Oil**

KEEPING THE
WORLD
RUNNING
SMOOTHLY. 



El Mar® GEO

Typical Properties		
SAE Grade	30/40	15W-40
Specific Gravity @ 60°F	0.885	0.869
Density, lbs/gal @ 60°F	7.37	7.24
Color, ASTM D1500	3.0	2.0
Flash Point (COC), °C (°F)	280 (536)	240 (464)
Pour Point, °C (°F)	-24 (-11)	-40 (-40)
Viscosity, Kinematic		
cSt @ 40°C	133	107
cSt @ 100°C	13.1	14.2
Viscosity Index	91	135
Cold Cranking Viscosity, cP @ (°C)	---	6,400(-20)
Acid Number, ASTM D974, mg KOH/g	0.14	0.04
Carbon Residue, ASTM D524, wt %	0.05	0.10
Sulfated Ash, ASTM D874, wt %	<0.01	<0.01
Phosphorus, wt %	0.003	0.011

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>.

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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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