

## ConocoPhillips Conoco® El Mar® Grade 40 Mid Ash Supreme Oil

Category : Fluid , Lubricant

### Material Notes:

Conoco® El Mar Mid Ash Supreme is a premium 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 Mid Ash Supreme is formulated with field-proven performance additives to provide excellent resistance to oxidation and nitration, protect against piston scuffing and wear, and minimize the formation of 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. El Mar Mid Ash Supreme is designed specifically for use in Waukesha gas engines, and has extensive field experience in Waukesha VHP GL turbocharged lean-burn engines. It also is recommended for use in other 4-stroke cycle natural gas engines that require a mid-ash gas engine oil containing 1 percent (nominal) sulfated ash. Applications: 4 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 El Mar Mid Ash Supreme is recommended for use in natural gas engines manufactured by: Colt-Fairbanks Morse Cooper Superior Nordberg Waukesha (VHP GL turbocharged, lean-burn engines, models 3521, 5115, 7042, 9390) Features/Benefit: 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 Compatible with emissions system catalysts Does not contain any bright stock, which can cause harmful carbon deposits Information provided by ConocoPhillips.

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Physical Properties	Metric	English	Comments
Specific Gravity	0.894 g/cc	0.894 g/cc	60°F
Density	0.893 g/cc	0.0323 lb/in <sup>3</sup>	
Viscosity Measurement	96	96	Viscosity Index
Kinematic Viscosity at 40°C (104°F)	146 cSt	146 cSt	
Kinematic Viscosity at 100°C (212°F)	14.4 cSt	14.4 cSt	
Ash	1.0 %	1.0 %	Sulfated Ash; ASTM D874
ASTM Color	8.0	8.0	ASTM D1500

Thermal Properties	Metric	English	Comments
Pour Point	-23.9 °C	-11.0 °F	
Flash Point	225 °C	437 °F	COC

Component Elements Properties	Metric	English	Comments
Phosphorous, P	0.028 %	0.028 %	
Zinc, Zn	0.032 %	0.032 %	

Chemical Properties	Metric	English	Comments
Total Base Number	8.2	8.2	ASTM D2896

Descriptive Properties	Value	Comments
Phosphorus	280 ppm	
Zinc	320 ppm	

**Contact Songhan Plastic Technology Co.,Ltd.**

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