

# NATGAS MA 40

Long life stationary dual fuel gas engine oil

## Description

NATGAS MA 40 is formulated from a superior base stock with high viscosity index, low pour point property, and selected additives to impart detergent-dispersant, antioxidant, antiwear, and antifoam properties. The detergency level ensures the neutralization of acid components coming from fuel engine (dual-fuel engines).

## Applications

NATGAS MA 40 is suitable for modern spark-ignition engines that use dual fuel, natural gas or LPG and biogas, which the manufacturer recommends ash content between 0.5%-1.0%wt and using alternate fuels containing low levels of sulfur or chlorine. It also applicable for field gathering operations where sour gas (low levels of H<sub>2</sub>S) may be used as fuel.

## Specification Meets

NATGAS MA 40's specification meets the requirement of the following manufacturers:

- ▶ API Service CF Level
- ▶ Guascor
- ▶ Waukesha (VGF Series)
- ▶ GMT Ficantieri B 9213 Standard
- ▶ Jenbacher 1000 - 1106
- ▶ Wartsila (CR 26 GD, VJ3S series)

## Advantages

- ▶ Good anti-rust and anti-corrosion protection with a limited ash level
- ▶ Good thermal, nitration, and oxidation resistance
- ▶ Low ash content prevents deposits formation in the combustion chamber

## Typical Data of NATGAS MA 40

Characteristics	Unit	NATGAS MA 40	Test Method
SAE		40	
Density @ 15 °C	kg/L	0.895	ASTM D 4052
Kinematic Viscosity @ 40 °C	cSt	145.5	ASTM D 445
Kinematic Viscosity @ 100 °C		15.0	
Viscosity Index		103	ASTM D 2270
Flash Point (COC)	°C	253	ASTM D 92
Pour Point	°C	-15	ASTM D 97
Sulphated Ash	%wt	0.82	ASTM D 874
Total Base Number	mg KOH/g	8.5	ASTM D 2896

\* the typical characteristic mentioned represent mean values