

## ADVANTAGE PREMIUM MID ASH NATURAL GAS ENGINE OILS

### Overview

ADVANTAGE PREMIUM MID ASH NATURAL GAS ENGINE OILS are superior quality mid ash gas engine oils designed for use naturally aspirated and turbocharged 4-stroke natural gas engines. Formulated for the rigorous demands of today's engines, ADVANTAGE PREMIUM MID ASH NATURAL GAS ENGINE OILS are designed for use in natural gas and flex-fuel engines burning sour or landfill gas. High initial TBN and superior TBN retention reduces the corrosive effect of these gases.

### Features and Benefits

ADVANTAGE PREMIUM MID ASH NATURAL GAS ENGINE OILS are formulated without bright stock to reduce harmful carbon deposits, contain high alkaline reserve (TBN) to counteract acidic combustion byproducts (MA 40) and have outstanding oxidation, nitration, deposit, rust and corrosion protection.

### Applications

ADVANTAGE MA 40 is recommended for use in Waukesha, Caterpillar and other 4-stroke cycle lean-burning natural gas engines (Cooper Superior, Colt-Fairbanks Morse, Nordberg, etc.) that require 1 percent (nominal) sulfated ash. ADVANTAGE MA-DT 40 provides all the benefits of MA 40, but with a reduced ash and TBN for less critical applications.

### Recommended For Applications

Most manufacturers natural gas and flex-fuel engines burning sour or landfill gas.

### Typicals

PRODUCT CODES	700	720
PRODUCT	MA 40	MA-DT 40
Specific Gravity @ 60 F	0.884	0.884
Viscosity, cSt/40 °C	132	132
Viscosity, cSt/100 °C	13.8	13.8
Viscosity Index	101	101
Density, lbs/Gal @ 60 F	7.37	7.37
Pour Point, °C	-33	-33
Flash Point, COC °F	263	263
Color	7.5	7.5
Sulfated Ash, % wt	1.0	0.6
TBN	8.2	5.5
Phosphorus, wt %	0.028	0.028
Zinc, Wt %	0.032	0.032