



TIER ONE
LUBRICANTS
PRODUCT DATA SHEET

Tier One™ NGE0 Low Ash

Product Description

Tier One™ NGE0 Low Ash engine oils are formulated for use in spark-ignition engines which require a 'low ash' oil. These oils are compatible with NSCR-type exhaust catalyst. These oils are designed for stationary gas engines to meet the emerging legislation limiting emissions of NOx, and which employ latest 'lean and clean' technology.

Industry and OEM Specifications

- API CF
- Copper Bessemer (4-Cycle)
- Roline
- Caterpillar
- Waukesha
- Climax
- Cummins
- White Superior
- Colt-Fairbanks Morse
- Dresser-Rand Category II and III
- Worthington

Applications

Tier One™ NGE0 Low Ash engine oil is recommended for natural gas-fueled engines whether operating on pipeline quality gas, biomass, or landfill gas (except high halogen gases or those gases with high levels of sulfur).

Typical Properties*

| SAE GRADE | Test | SAE 30 | SAE 40 |
|--------------------|-------|--------|--------|
| Viscosity @ 100°C | D445 | 10.4 | 14.5 |
| Viscosity Index | D2770 | 95 | 95 |
| Pour Point °C | D97 | -20 | -20 |
| TBN | D2896 | 5.1 | 5.1 |
| Sulfated Ash mass% | D874 | 0.45 | 0.45 |
| Zinc (PPM) | ICP | 289 | 289 |
| Phosphorus (PPM) | ICP | 270 | 270 |
| Calcium (PPM) | ICP | 1150 | 1150 |

*The values shown here are representative of current production. Some are controlled by manufacturing specifications while others are not. All of them may vary within modest ranges.

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