



Geotex[®] HD

Gas Engine Oil

Heavy-duty, high alkalinity reserve, monograde crankcase oil specifically designed to lubricate European four-cycle spark ignition engines burning natural gas, digester gas (biogas) or liquid petroleum gas (LPG) and engines where lubricants meeting API CD and U.S. EMA Medium Ash Category are recommended.

APPLICATIONS

- Four-cycle, spark ignition industrial gas engines
- Digester gas (biogas) engines
- Stationary compression ignition dual-fuel engines
- Gas powered co-generation engines
- Recommended for many European stationary four-cycle engines

PERFORMANCE STANDARDS

- API CD
- U.S. EMA Medium Ash Category
- Jenbacher TI 1000-1106 approval for four-cycle engines

ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Caltex Material Safety Data Sheet (MSDS) and Caltex Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit www.caltexoils.com.

BENEFITS

- ✦ **Maximizes engine life**
Detergent additive provides excellent piston deposit control. Balanced sulfated ash level reduces valve surface deposits.
- ✦ **Reduced maintenance costs**
Outstanding oxidation and nitration resistance minimizes acid number increase, providing protection against bearing corrosion.
- ✦ **Maximizes oil change periods**
High level of alkaline reserve ensures that corrosive acids formed by the combustion process are neutralized. Highly effective oxidation inhibitor minimizes oil thickening in service.

KEY PROPERTIES

SAE Grade	40
Base No.,	
D2896, mg KOH/g	7.0
D4739, mg KOH/g	6.5
Phosphorus, m %	0.04
Pour Point, °C	-18
Sulfated Ash, m %	0.77
Viscosity,	
mm ² /s @ 40°C	126
mm ² /s @ 100°C	13.0
Viscosity Index	96
Zinc, m %	0.05

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A **ChevronTexaco** Product

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by ChevronTexaco Global Lubricants Solutions



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SERVICE CONSIDERATIONS

The sulfated ash, alkalinity reserve and phosphorus content of gas engine oils can be properly matched to the needs of individual applications, taking account of engine design, operating conditions, fuel type and quality, with particular reference to sulfur content and whether or not the engine is fitted with an exhaust catalyst for emission control purposes.

All spark ignition, gas-fuelled engines are sensitive to the sulfated ash level of the lubricant and to the chemical nature of the ash. Excessive ash can lead to problems such as exhaust valve guttering and build-up of preignition-inducing combustion chamber deposits. On the other hand, many engines require a certain amount of lubricant ash to ensure satisfactory valve seat lubrication and minimize valve seat recession.