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P/N 48433

SHELL MYSELLA® OIL LA

Premium low ash natural gas engine oils

Product Description

Shell Mysella® LA are premium quality heavy-duty oils blended for use in highly-rated, spark-ignition engines which require a "low ash" oil. These natural gas engine oils are formulated with select base stocks and carefully chosen additives for optimum performance. Shell Mysella® LA satisfies the new generation of stationary gas engines designed to meet the emerging legislation limiting emissions of NOx, and which employ the latest 'lean' or 'clean' burn technology.

Applications

- spark-ignited gas engines fueled by natural gas
- all two- and four-stroke gas engines that do not call for ashless-type oils
- stationary gas engines such as:
 - Caterpillar
 - Colt-Fairbanks Morse
 - Cummins
 - Rollie
 - White Superior
 - Climax
 - Copper Bessmer (4-Cycle)
 - Dresser-Rand Category II and III
 - Waukesha
 - Worthington (4-Cycle)
- natural gas-fueled engines -- whether operating on pipeline quality gas, sewer, biomass or landfill gas (except high halogen gases or those gases with levels of sulfur and hydrogen sulfide requiring oils with high levels of alkalinity)

Note: LPG engines in mobile service typically require API SJ or similar quality level motor oils

Features/Benefits

- high oxidation and nitration resistance make Shell Mysella® LA oils excellent choices for use in many engines operating under high load and high temperature conditions
- applications (Alkalinity and Ash) involving sewer gas, biogas and most landfill gases are within the alkaline neutralization capability
- protects against valve recession
- protects against scuffing and wear
- formulated without the use of bright stock, which can contribute to carbon deposits, and port plugging in two-stroke engines
- use select detergent/dispersant chemistry to keep piston skirts and ring belts clean
- formulated with less than 300 ppm zinc to optimize antiwear performance, yet protect control systems catalytic converters

Approvals

- Dresser-Rand for use in their Category II and Category III engines.



15W-40 Cummins GAS ONLY.

48433

Mobil

Product Data Sheet

Mobil Delvac Super GEO Series

Commercial CNG/LNG Engine Oil

Product Description

Mobil, the leading marketer of lubricants for the stationary natural gas transmission industry through its Pegasus gas engine oils, has adapted its technology for the transportation market with new lubricants, Mobil Delvac Super GEO Series.

Mobil Delvac Super GEO Series are specially formulated fleet engine oils designed for trucks and buses using CNG (Compressed Natural Gas) or LNG (Liquified Natural Gas) as an alternative fuel in heavy duty diesel engines. They are made from the highest-quality selected base stocks to provide excellent oxidation, nitration, and thermal stability. This results in less varnish, sludge, and carbon build-up under the most severe natural gas operating conditions. The products have superior resistance to foaming, exhibit good demulsibility, and provide excellent protection against corrosion.

Mobil Delvac Super GEO Series uses an advanced additive technology which minimizes ash deposits in the combustion chamber and valves while providing maximum dispersancy for optimum cleanliness of CNG/LNG engines. The formulation is carefully balanced to provide outstanding protection against valve seat wear, piston scuffing, liner scoring, and cylinder wear while minimizing deposit formation.

Mobil Delvac Super GEO Series are multigrade engine oils, available at SAE 15W-40 or 20W-50 viscosity grades, which minimize oil consumption and have excellent shear stability during service. They provide a greater margin of high-temperature viscosity protection in areas of high shear for better protection against bearing wear and cylinder liner scuffing. They also offer outstanding low-temperature pour, cranking, and jumping capabilities. Low levels of zinc and phosphorus allow use of Mobil Delvac Super GEO Series in engines equipped with catalytic converters. These lubricants have excellent reserve alkalinity to neutralize oxyacids and nitrate products even under the most severe operating conditions.

Benefits

When used as recommended, Mobil Delvac Super GEO Series provide these advantages and benefits:

- o Outstanding engine cleanliness
- o Maximum protection against cylinder liner wear piston scuffing, and scoring
- o Excellent resistance to oxidation and nitration
- o Optimized TBN retention
- o Excellent valve-face and seat-wear protection
- o Minimal ash deposits in lean-burn and high oil consumption gas engines
- o Longer drain capability compared to conventional fleet engine oils
- o Excellent resistance to foaming and corrosion

Applications

Mobil Delvac Super GEO Series were developed to provide the highest level of performance during normal operation in: spark-ignited CNG and LNG lean-burn engines; dual fuel engines using diesel fuel for start-up; and 15 percent diesel pilot fuel with CNG or LNG. It is designed to work in Cummins, Caterpillar, Detroit Diesel, and MAN engines.

Typical Properties

Mobil Delvac Super GEO Product Code		15W-40 974302	20W-50 97D049
	Test Method	15W-40	20W-50
SAE GRADE			
Viscosity	ASTM D445		
cSt at 40°C		108	170
cSt at 100°C		14.5	19.0
CCS Viscosity	ASTM D5293		
P at -15°C		3250	—
P at -10°C		—	4060
Viscosity Index	ASTM D2270	136	126
Sulphated Ash, wt%	ASTM D874	0.5	0.5
Total Base Number (TBN) mg KOH/g	ASTM D2896	5.0	5.3
Flash Point, °C	ASTM D92	229	234
Pour Point, °C	ASTM D97	-40	-30

Health & Safety

Based on available toxicological information, these products produce no adverse effects on health when properly handled and used. No special precautions are suggested beyond attention to good personal hygiene, including laundering oil-soaked clothing and washing skin-contact areas with soap and water. Additional health and safety information on these products, including Material Safety Data Bulletins, is available on request from your local Mobil company.

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to make a difference™