Super S® Ashless Gas Engine Oil

Super S® Ashless Gas Engine Oil is a premium performance ashless engine oil proven to be an exceptional performer during years of field service throughout North America in 2-stroke and selected 4-stroke gas engines operating at low, medium and high speeds. It is based on an exclusive ashless formulation to help prevent combustion chamber deposits, carbon and ash deposits that cause exhaust port blockage, and spark plug fouling.

Super S® Ashless Gas Engine Oils help to provide exceptionally clean engine parts, even under severe operating conditions and extended overhaul intervals. They help protect against the formation of crankcase sludge and help to maintain clean exhaust ports in two-stroke engines.

Super S® Ashless Gas Engine Oils uses the latest generation of ashless detergent and anti-scuff additives in a highly refined Group II base oil that provides a high level of chemical and thermal stability resulting in cleaner engines and improved engine performance.

Suitable for use in a variety of alternative fueled on- and off-road engines operating in the most severe conditions. May be used in CNG (Compressed Natural gas), LPG (Liquified Petroleum gas), and LNG (Liquified Natural Gas) applications.

FEATURES/ BENEFITS

- Exclusive ashless formulation with years of proven performance
- Exceptional oxidation and nitration resistance
- Excellent piston and engine cleanliness
- Contains an ashless anti-scuff agent
- Designed to lubricate naturally aspirated and turbo charged engines
- Works well with natural and synthetic gas
- Can use a variety of fuels: CNG (compressed natural gas), LPG (liquefied petroleum gas) and LNG (liquefied natural gas)
- Ashless formulation reduces spark plug fouling, port plugging and pre-ignition
- Minimizes formation of crankcase deposits and valve cover / top deck sludge
- Catalyst compatible formulation

APPLICATIONS

Super S® Ashless Gas Engine Oils are recommended for use in all two-stroke and selected four-stroke stationary engines that require a completely ashless-type engine oil and which use natural or synthetic fuels such as **CNG, LNG,** and **LPG.**

They are the recommended for the lubrication of the crankcase, power cylinders, and compressor cylinders of spark-ignited, two- and four-cycle gas engines operating on clean fuel. It shows excellent performance in multi-purpose applications, particularly involving highly turbocharged engines requiring anti-scuff protection for cylinder liners and piston skirts. They are ideal for engines that drive generators for power production or gas compressors in gathering, transmission, storage, and distribution of natural gas.

They are also recommended for engines with bearing corrosion problems.

***Ashless 15W-40 may not be appropriate for use in large medium speed gas engines. Always refer to your Owner's Manual for fluid recommendations.**

RECOMMENDATIONS/SPECIFICATIONS

Super S Ashless Gas Engine Oils are suitable for use where the following specifications are recommended:

API Service Categories CI-4, CH-4

2-Stroke Engines

Ajax
Dresser Rand (Clark)
Fairbanks - Morse
Cooper Energy Services / BMEP < 85 PSI
Dresser Rand (Ingersoll-Rand) Categories I and II

4-Stroke Engines

Caterpillar (Except 3400, 3500, 3600)
Dresser Rand (Ingersoll-Rand)
Cooper Bessemer Energy Services
GE / Waukesha (VR and Intermediate/Clinton)

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SPECIAL HANDLING, NOTICES OR WARNINGS

Use the same care and handling that you would use with petroleum products.

TYPICAL CHARACTERISTICS

Super S® Ashless Gas Engine Oil				
Property	*Test Method ASTM -D*	*SAE Viscosity Grade*		
		30	40	15W-40
API Service Category		CI-4, CH-4		
Flash Point °C/ °F	92	246/480	246/480	246/480
Pour Point °C/ °F	97	-18/0	-18/0	-20/-4
Viscosity cSt @ 40°C cSt @ 100°C	445	 98.1 10.9	 139 13.1	 103 13.5
VI	2270	95	95	130
Ash	874	<0.01	<0.01	<0.01
TBN	2896	1.1	1.1	1.1
Zinc, wt%	6481	0	0	0
Phosphorous wt%	6481	0.025	0.025	0.025
Calcium wt%	6481	0	0	0

Typical test data are average values only.
Minor variations which do not affect product performance are to be expected during normal manufacturing.

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