



Super S[®] Low Ash Gas Engine Oil

Super S[®] Low Ash Gas Engine Oils are low ash heavy-duty engine oils formulated to meet the needs of gas fueled engines operating in severe service. **Super S[®] Low Ash Gas Engine Oils** provide outstanding oxidation and nitration resistance, which minimize the buildup of insolubles and help provide long oil and filter life. They also give excellent protection against ring and liner scuffing and wear while providing improved TBN retention compared to other leading gas engine oils.

Super S[®] Low Ash Gas Engine Oils also minimize valve recession in four-stroke engines and provide excellent piston and ring belt deposit control and effectively protect against the formation and buildup of engine sludge. In field trials conducted in DDC Series 50G engines, the technology in **Super S[®] Low Ash Gas Engine Oil** showed improved control of piston deposits over lower ash fleet engine oils.

Super S[®] Low Ash Gas Engine Oil is specifically formulated to provide extended protection in 2 and 4-stroke naturally aspirated and turbo charged engines operating on a variety of alternative fuels in on-highway applications. Field trials have shown use of **Super S[®] Low Ash GEO** can extend equipment life when combined with a regular maintenance schedule.

Applications

- Engines calling for API CF, CD
- Satisfies requirements for naturally aspirated and turbo-charged engines
- Meets needs of alternate fueled vehicles in on-highway service such as mass transit and local delivery vehicles
- Engines operating on CNG compressed natural gas, LPG liquefied petroleum gas and LNG liquefied natural gas
- Vehicles equipped with NOx-SCR type exhaust catalysts due to low Phosphorus content

Features/Benefits

- Provides wear protection, deposit control and oxidation and nitration resistance.
- Provides protection and control of valve train wear and piston ring and liner wear, helping to prolong engine life.
- 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
- Low ash formulation reduces spark plug fouling, port plugging and preignition
- Minimizes formation of crankcase deposits and valve cover / top deck sludge
- Formulated to meet catalyst compatibility requirements and are especially suited for applications requiring low phosphorus oil to prevent catalyst poisoning

Recommendations/Specifications

Super S Low Ash Gas Engine Oils meets requirements API Service Categories CF and CD, and also meets 2 & 4 stroke engines OEM specifications including:

Caterpillar Energy GmbH (CG132, CG 170, CG260)

Delaval Enterprise

Dresser-Rand (Categories I, II, and III)

Superior

Waukesha

Clark-Dresser

Worthington

MWN (Deutz)

GE Jenbacher Type 2, 3, and 4

Wartsila

Worthington

MAN Diesel & Turbo

2 stroke engines including Ajax, Fairbanks Morse/MEP



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Typical Characteristics

Super S [®] Low Ash Gas Engine Oils			
Property	Test Method ASTM -D	SAE Viscosity Grade	
		30	40
API Service Category		CF, CD	CF, CD
TBN	2896	5.45	5.45
Flash Point °C/ °F	92	221/430	232/450
Pour Point °C/ °F	97	-18/0	-15/0
Viscosity cSt @ 40°C cSt @ 100°C	445	101 11.4	151 14.8
VI	2270	95	95
Ash	874	<0.5	<0.5

Typical test data are average values only.

Minor variations which do not affect product performance are to be expected during normal manufacturing.

Special Handling, Notices Or Warnings

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