



HDAX® 9700 SAE 40

High performance low ash stationary gas engine oil

Product description

HDAX® 9700 is a premium performance, uniquely designed engine oil recommended for dual fuel, medium-speed, four stroke trunk piston engines burning natural gas with diesel pilot fuel ignition and up to 100 percent low sulfur diesel fuel (<1000 ppm sulfur).

Customer benefits and product features

Customer benefits

- **Smooth Engine Operation**

Fit for purpose formulation suitable for use with a wide range of fuels, allowing switching from gas to diesel without the need to change oil.

- **Longer Oil Life**

A combination of premium base oils and high-performance additives offer effective oxidation and nitration resistance over extended oil drain periods. Used oil analysis is recommended for establishing and maintaining oil service intervals.

- **Cleaner Pistons**

Very low combustion chamber and piston deposits help protect liners from scoring and extend engine top-end maintenance cycles

Product features

HDAX 9700 is a premium dual fuel gas engine oil with proven field service experience in dual fuel engines operating with diesel pilot ignition natural gas mode and up to 100% diesel mode for extended operation periods. It helps provide effective deposit control, corrosion resistance and contributes to wear protection. The formulation is designed to help control ash accumulation in combustion chambers and exhaust after treatment while providing sufficient alkalinity to help protect against acidic corrosion.

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Applications

- Four cycle medium-speed dual fuel, natural gas/ultra-low sulfur diesel medium-speed trunk piston engines in coastal marine, inland marine, railroad and power generation applications.
- Four cycle medium-speed high output engines may be turbocharged and equipped with exhaust catalysts systems.
- Field service experience in Wärtsilä dual fuel engines in coastal marine operations.

Approvals, performance and recommendations

Developed independently by Chevron to comply with the following performance standards and specifications:

HDAX® 9700	SAE 40
Anglo Belgian Corporation DZ engines with DPF and fuel sulfur <0.1%	Approved
Daihatsu Marine Engines, Dual Fuel (DF) Series	Approved
Hyundai Himsen, OEM ENGINE SPECIFIC	Approved
MAN Energy Solutions 4-S medium speed engines, DF (NG, Distillate <1000ppm sulfur)	Approved
MAN Energy Solutions 4-S medium speed engines (Distillate <1000ppm sulfur)	Approved
API CF	Meets the requirements

Consult OEM representatives for independent verification, updates and recommendations.

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Typical test data

HDAX® 9700	TEST METHOD	RESULTS
SAE Grade		40
Product Code		530068
Density, @ 15°C, kg/l	ASTM D4052	0.8721
Base No., mg KOH/g	ASTM D2896	5.8
Sulfated Ash, m %	ASTM D874	0.70
Kinematic Viscosity, mm ² /s @ 100°C	ASTM D445	13.8
Pour Point, °C	ASTM D97	-36
Flash Point, COC °C	ASTM D92	268

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and 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 the Product Information Center.

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