HDAX 9700 SAE 40

Premium performance dual fuel gas engine oil

Product description

HDAX® 9700 SAE 40 is a premium performance gas engine oil, uniquely designed for dual fuel, medium-speed, four-stroke cycle trunk piston engines burning natural gas with diesel pilot fuel ignition and up to 100 percent low sulphur diesel fuel (<1000 ppm sulphur).

HDAX 9700 SAE 40 is formulated with a combination of premium base oils and high-performance additives, designed to help offer excellent oxidation and nitration resistance over extended oil life. It helps provide effective deposit control, corrosion resistance and contributes to wear protection.

HDAX 9700 SAE 40 is engineered to help control ash accumulation in combustion chambers and exhaust aftertreatment systems, while providing sufficient alkalinity to help protect against acidic corrosion. It has proven field service in dual fuel engines operating in both natural gas mode with diesel pilot ignition and up to 100% diesel mode for extended operating periods.

Customer benefits

- Contributes to extended drain capability and low oil consumption through a combination of premium base oils and high-performance additives.
- Designed to provide excellent oxidation and nitration resistance over extended oil life. Used oil analysis is recommended for establishing and maintaining oil service intervals.
- Promotes engine cleanliness and long component life through very low combustion chamber and piston deposits, helping protect liners from scoring and extending engine top-end maintenance cycles.
- Engineered to help protect against abrasive wear.
- Smooth engine operation through a 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.

Product highlights

- **Dual fuel performance in natural gas and diesel operating modes**
- **Promotes extended drain capability and low oil consumption**
- **Aids combustion chamber and piston deposit control**
- **Formulated to help control ash accumulation in exhaust aftertreatment systems**
- **Provides protection against acidic corrosion**
- **Helps protect wear and extend engine service life**

Selected specification standards include:

API	Anglo Belgian Corporation
Daihatsu	Hyundai Himsen
Everllence (formerly MAN ES)	

Applications

HDAX 9700 SAE 40 is recommended for dual fuel, natural gas/ultra-low sulphur diesel medium-speed trunk piston engines in coastal marine, inland marine, railroad, and power generation applications. These high output engines may be turbocharged and equipped with exhaust catalyst systems.

HDAX 9700 SAE 40 has field service experience in Wärtsilä dual fuel engines in coastal marine operations.

HDAX 9700 SAE 40 is suitable for use with fuels containing low levels of sulphur. It is formulated to allow switching between natural gas and diesel modes without requiring an oil change.

Approvals, performance and suitable for use

Approvals

• Everllence (formerly MAN ES)	- 4-stroke medium speed engines, DF (Natural Gas, Distillate <1000 ppm sulphur)
	- 4-stroke medium speed engines, Distillate <1000 ppm sulphur
• Hyundai Himsen	OEM Engine Specific
• Anglo Belgian Corporation	DZ Engines with DPF and Fuel sulphur <1000 ppm
• Daihatsu	OEM Engine Specific

Performance

• API	CF

Typical test data

Test	Test Methods	Results
Viscosity Grade		**SAE 40**
Shelf Life: 60 months from date of filling indicated on the product label.		
Density, 15 °C, kg/l	ASTM D4052	0.8721
Viscosity, Kinematic, 100 °C, mm²/s	ASTM D445	13.8
Pour Point, °C	ASTM D97	-36
Flash Point, COC, °C	ASTM D92	230
Total Base Number, mg KOH/g	ASTM D2896	5.8
Sulphated Ash, %wt	ASTM D874	0.70

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

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