



HDAX[®] 9700 ISOCLEAN[®] CERTIFIED LUBRICANT SAE 40

PRODUCT DESCRIPTION

HDAX[®] 9700 ISOCLEAN[®] Certified Lubricant is a premium performance uniquely designed engine oil recommended for dual fuel, medium-speed, four stroke cycle trunk piston engines burning natural gas with approximately 3 percent diesel pilot fuel ignition and up to 100 percent low sulfur diesel fuel (<500 ppm sulfur). Chevron ISOCLEAN Certified Lubricants have been certified to meet specified ISO Cleanliness standards at point of delivery using industry leading filtration and testing technology. ISOCLEAN Certified products are the first step for contamination control and maximizing component life.



- **Long oil life** — A combination of premium base oils and high performance additives offer excellent oxidation and nitration resistance over extended oil life.*
- **Clean pistons** — Very low combustion chamber and piston deposits help protect liners from scoring and extend engine top-end maintenance cycles.
- **Minimized valve recession** — The unique ash-containing additives in the oil allow minimal valve recession with low levels of combustion chamber deposits, to minimize the potential for pre-ignition and spark plug fouling.
- **Low fluid volatility** — Helps minimize oil consumption.

CUSTOMER BENEFITS

HDAX 9700 ISOCLEAN Certified Lubricant provides the following benefits:

- **Ready to use** — Enables users to meet stringent original equipment manufacturers' cleanliness standards for fill lubricants.
- **Flexibility** — ISO Cleanliness targets can be customized to fit your business application needs.
- **Peace of mind** — Each delivery of Chevron ISOCLEAN Certified Lubricant includes an ISOCLEAN Certificate of Analysis.
- **OE fluid cleanliness requirements** — Customized to meet specific equipment manufacturers' fluid cleanliness requirements.
- **Smooth engine operation** — Fit for purpose formulation minimizes risk of rough engine operations that may result from misfiring or detonation when operating in dual fuel mode and using an elevated ash engine oil, as is typical of medium speed diesel engine oils.

FEATURES

HDAX 9700 ISOCLEAN Certified Lubricant 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 percent diesel mode for extended operational periods. It offers reliable deposit control, corrosion resistance and wear protection. Its hybrid technology is designed to control ash accumulation in combustion chambers to minimize risk of preignition and the rough engine operation that may be associated with engine misfire and detonation.



* Used oil analysis is recommended for establishing and maintaining oil service intervals.

Product(s) manufactured in the USA.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

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GEO-39 ISOCLEAN

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APPLICATIONS

HDAX® 9700 ISOCLEAN® Certified Lubricant is recommended for dual fuel, natural gas / ultra low sulfur 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 catalysts systems.

HDAX 9700 ISOCLEAN Certified Lubricant has field service experience in:

- **Wärtsilä dual fuel engines in coastal marine operations**

Consult with your Chevron Lubricant Representative or Chevron ISOCLEAN Certified Lubricants Marketer to set specific ISO Cleanliness targets for your business application.

TYPICAL TEST DATA

SAE Grade	40
<i>Product Number</i>	232314
<i>SDS Number</i>	
<i>U.S.</i>	50346
<i>Canada</i>	50347
Density at 15°C, kg/L	0.8721
Viscosity, Kinematic	
mm ² /s at 40°C	117
mm ² /s at 100°C	13.4
Viscosity Index	110
Flash Point, °C(°F)	268(514)
Pour Point, °C(°F)	-36(-33)
Sulfated Ash, mass % ASTM D874	0.7
Base Number, mg KOH/g	
ASTM D2896	5.8
Phosphorus, ppm	280
Zinc, ppm	330

Minor variations in product typical test data are to be expected in normal manufacturing.

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