



marine lubricants

# HDAX<sup>®</sup> 9700 SAE 40



## Description

HDAX<sup>®</sup> 9700 is a premium performance, uniquely designed engine oil recommended 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 sulfur diesel fuel (<1000 ppm sulfur).

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 percent diesel mode for extended operational periods. It offers reliable deposit control, corrosion resistance and wear protection. The formulation is designed to control ash accumulation in combustion chambers and exhaust after treatment while providing sufficient alkalinity to protect against acidic corrosion.

## Typical Characteristics

MPID	219911
Density at 15°C, kg/l	0.87
Kinematic viscosity at 40°C, mm <sup>2</sup> /s	117.0
Kinematic viscosity at 100°C, mm <sup>2</sup> /s	13.4
Viscosity Index	110
Pour Point, °C	-36
Flash Point COC, °C	268
Total Base Number, mg KOH/g	5.8
Sulfated Ash, %wt	0.7

## Recommended Applications

HDAX 9700 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. Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practice.

## HDAX 9700 Is Approved For:

MAN Energy Solutions

## Performance Benefits

### 1. Smooth Engine Operation

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

### 2. Long Oil Life

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

### 3. Clean Pistons

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



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