

# GAS HEAPOREX 10TH

## Gas heat pump (GHP) dedicated oil

Gas heat pumps are widely used for multiple packaged air conditioning unit system and small and medium-sized air conditioning systems from commercial use to home use which require free of maintenance for long term. Therefore, long life performance is also required for oil. **GAS HEAPOREX 10TH** is a gas engine oil aimed to further improve the performance of **GAS HEAPOREX 6TH** which is developed exclusively for small gas heat pumps. **GAS HEAPOREX 10TH** demonstrates high performance for a long time, because it has excellent thermal and oxidation stability, detergency and anti-wear performance.

### ● Special Features

#### 1. Excellent thermal and oxidation stability

Because gas engines have higher thermal loads than other engines, the oil tends to oxidize and degrade. **GAS HEAPOREX 10TH** is excellent in oxidation stability at high temperature and preventing corrosion wear, by neutralizing acidic substances produced by oxidative degradation of engine oil.

#### 2. Good inhibition of nitration

Normally, in gas engine, the NO<sub>x</sub> concentration in the blowby gas is high, because the combustion temperature is high. This creates sludge due to nitrogen oxide (nitration) in engine oil, causing viscosity increase. **GAS HEAPOREX 10TH** has excellent stability against NO<sub>x</sub> and suppresses deterioration by nitration.

#### 3. Excellent engine cleanliness

**GAS HEAPOREX 10 TH** is formulated so as to minimize the deposit in the combustion chamber and dirt of the ignition plug as much as possible. It maintains the cleanliness of the piston and other parts of the engine as well. That is, it has excellent acid neutralizing property and detergency.

#### 4. Excellent anti-wear performance

**GAS HEAPOREX 10TH** exhibits excellent anti-wear performance for valve train systems with severe lubrication conditions.

#### 5. Good catalytic compatibility

Phosphorus content in the oil is reduced as much as possible in order to reduce catalyst poisoning in the system with the exhaust gas catalyst.

### ● Application

Each model of each GHP manufacturer

### ● Oil exchange period

Please follow the instruction manual of the engine manufacturer.

### ● Containers

200-liter drums, 20-liter pail cans

### ● Typical properties of GAS HEAPOREX 10TH

SAE viscosity grade	10W-30	
Color (ASTM)		L2.5
Density (15 °C)	g/ cm <sup>3</sup>	0.857
Kinematic Viscosity (40 °C)	mm <sup>2</sup> /s	60.79
	(100 °C)	10.47
Viscosity Index		162
Flash Point (COC)	°C	226
Pour Point	°C	-42.5
Acid Number	mgKOH/g	3.19
Base Number (ASTM D664)	mgKOH/g	9.84
Sulfated Ash	mass%	1.23
Foaming Tendency tendency/stability	mL	
Sequence II (94°C)		20/0
Copper strip corrosion (100°C, 3 h)		1
Rust prevention (distilled water, 60°C, 24 h)		No rust

Note: The typical properties may be changed without notice.  
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## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil, Additives
<b>Precautionary pictograms:</b>	Not applicable
<b>Signal word:</b>	Not applicable
<b>Hazard Statement:</b>	Harmful to aquatic life Harmful to aquatic life with long lasting effects
<b>Precautionary Statements:</b>	
<b>Prevention</b>	<ul style="list-style-type: none"><li>• Do not handle until all safety precautions have been read and understood.</li><li>• Wear protective gloves/protective clothing/eye protection/face protection.</li><li>• Do not allow the eyes to become exposed to the product. Do not swallow the product.</li><li>• Wash hands thoroughly after handling.</li><li>• Do not eat, drink or smoke when using this product.</li></ul>
<b>Response</b>	<ul style="list-style-type: none"><li>• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li><li>• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li><li>• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li><li>• IF ON SKIN: Wash with plenty of soap and water.</li><li>• Avoid release to the environment.</li></ul>
<b>Storage</b>	<ul style="list-style-type: none"><li>• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li><li>• Containers that have been opened must be tightly sealed.</li></ul>
<b>Disposal</b>	<ul style="list-style-type: none"><li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li><li>• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li></ul>