MAR-1010-2403E

PRODUCT BULLETIN

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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 mediumsized 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 NOx 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 NOx 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 purification catalyst.

Application

Each model of each GHP manufacturer

Oil exchange period

Please follow the instruction manual of the GHP manufacturer.

Containers

200-liter drum, 20-liter pail can

Typical properties of GAS HEAPOREX 10TH

SAE viscosity grade		10W-30
Color (ASTM)		L2.5
Density (15°C)	g/ cm ³	0.857
Kinematic Viscosity (40°C)	mm ² /s	60.79
(100 °C)	mm ² /s	10.47
Viscosity Index		162
Flash Point (COC)	°C	226
Pour Point	°C	-42.5
Acid Number	mgKOH/g	3.19
Base Number (ASTM D4739)	mgKOH/g	9.84
Sulfated Ash	mass%	1.23
Foaming Tendency tendency/stability		
Sequence II (94°C)	ml/ml	20 /0
Copper strip corrosion (100°C, 3 h)		1
Rust prevention (distilled water, 60°C, 24h)		No rust

Note: The typical properties may be changed without notice. (June 2011)



Handling Precautions

▼ Follow these precautions when handling this product.

Composition :	Base Oil(s), Additives	
Hazard pictograms:		
Signal word:	Warning	
Hazard Statement:	May cause an allergic skin reaction.	
	Harmful to aquatic life	
	Harmful to aquatic life with long lasting effects	
Precautionary Statements:	• Do not handle until all safety precautions have been read and understood.	
Prevention	Wear protective gloves/protective clothing/eye protection/face protection.	
	• Do not allow the eyes to become exposed to the product. Do not swallow the product.	
	Avoid release to the environment.	
	Contaminated work clothing should not be allowed out of the workplace.	
	Avoid breathing dust/fume/gas/mist/vapours/spray.	
	Wash hands thoroughly after handling.	
	• Do not eat, drink or smoke when using this product.	
Response	IF SWALLOWED: Immediately call a POISON CENTER/doctor.	
	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
	• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and	
	immediately contact a physician.	
	• IF ON SKIN: Wash with plenty of soap and water.	
	If skin irritation or a rash occurs: Get medical advice/attention.	
	Take off contaminated clothing and wash it before reuse.	
Storage	• The product must be stored in a cool, well-ventilated location where it will not be exposed	
	to direct sunlight.	
	• Containers that have been opened must be tightly sealed.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international	
	regulations.	
	• If there are any doubts about proper methods of handling the product, contact the point of	
	purchase before proceeding with usage.	