

BIO TURBINE 32

Biodegradable Turbine Oil

Equipment used in oceans, rivers and lakes always has a risk of oil leakage causing environmental pollution. Therefore, the demand for biodegradable lubricating oil is increasing as a measure to cope with environmental conservation. **BIO TURBINE 32** is a biodegradable general-purpose lubricant that meets this requirement, focusing the effect on "people", "environment" (biodegradability), "resource" (long life) as environmentally friendly lubricant. **BIO TURBINE 32** is classified as the JIS K 2213 2 species (with additives), and it is an Eco Mark product certified by the Japan Environment Association Eco Mark Secretariat.

● Special Features

1. It is a biodegradable general-purpose lubricant that passes Eco Mark certification criteria and has small effect on environment.
2. It has a flash point of 250°C or higher, and it also has flame retardancy.
3. Although it is biodegradable, it is excellent in oxidation stability and hydrolytic stability. It is the first kind in lubricant that satisfies both long life and biodegradability.

● Applications

It is used for equipment related to environmental pollution such as turbine bearings of hydroelectric power plants, sluice gate equipment, construction machinery, agricultural machinery.

● Packaging

200-liter drums

● Typical Properties of BIO TURBINE 32

Color (ASTM)	L0.5
Density (15°C), g/cm ³	0.960
Kinematic viscosity(40°C), mm ² /s	33.5
Kinematic viscosity (100°C), mm ² /s	6.06
Viscosity index	129
Flash point (COC), °C	274
Pour point, °C	-30
Acid number, mgKOH/g	0.13
Pour point, °C	-17.5
Copper strip corrosion (100°C, 3 h)	1
Rust prevention (distilled water,60°C ,24 h)	No rust
Oxidation stability(RPVOT、150°C), min	710
Eco Mark certification number	05 110 008

Note: The typical properties may be changed without notice. (September 2012)



Handling Precautions

▼ Follow these precautions when handling this product.

Composition :	Base Oil, Additives
Precautionary pictograms:	Not applicable
Signal word:	Not applicable
Hazard Statement:	Not applicable
Precautionary Statements:	<ul style="list-style-type: none">• Do not handle until all safety precautions have been read and understood.• 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.• Wash hands thoroughly after handling.• Do not eat, drink or smoke when using this product.
Prevention	
Response	<ul style="list-style-type: none">• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.• 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.
Storage	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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.