



## Idemitsu Apollo (Thailand) Co., Ltd.

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# DAPHNE SUPER TURBINE OIL 32

## 1. Application

Daphne Super Turbine Oil 32 is recommended for use in turbo systems such as large steam turbine, high speed turbo compressor, turbo compressor for chlorine gas and nuclear power generator.

## 2. General

Daphne Super Turbine Oil 32 is epoch-making and super long life oil with high quality hydro-treated paraffinic base oil and various eligible additives such as oxidation inhibitor, rust preventive, anti-foaming agent, oiliness improver.

## 3. Characteristic

1. Exceptional oxidation stability assures super long service life, especially for large steam turbine power generator.
2. High quality mineral base oil with eligible additives formulation also has the anti-oxidation and chlorine acid formation.
3. Low sulfur content and good thermal stability protect against discoloration of white-metal.
4. Due to good lubricity, it reduces the shaft and bearing wear and prevent gear surface wear trouble.

## 4. Viscosity Grades and Corresponding to JIS Specification

ISO Grade	:	32
JIS Specification	:	K 2213 Turbine Oil ISO VG 32 Type 2

## 5. Typical Specification

				<u>ASTM Method</u>
Density	@ 15 °C	g/cm <sup>3</sup>	<b>0.8630</b>	D-1298
Color	ASTM		<b>L 0.5</b>	D-156
Reaction			<b>Neutral</b>	-
Flash Point	C.O.C.	°C	<b>230</b>	D-92
	C.O.C.	°F	<b>446</b>	D-92
Viscosity	@ 40 °C	mm <sup>2</sup> /s	<b>32.00</b>	D-445
	@ 100 °C	mm <sup>2</sup> /s	<b>5.46</b>	D-445
Viscosity Index			<b>106</b>	D-2270
Pour Point	°C		<b>-17.5</b>	D-97
Total Acid Number		mgKOH/g	<b>0.09</b>	D-974
Carbon Residue		wt%	<b>&lt;0.01</b>	D-189
Copper Corrosion	100 °C x 3 Hrs.		<b>1</b>	D-130
Sulfur Content		wt%	<b>&lt;0.01</b>	D-129
Interfacial Tension		dyne/cm	<b>20.0</b>	D-971
Emulsion Characteristics	@ 54 °C		<b>40-40-0 (5)</b>	D-1401
Rotary Bomb Oxidation Test	@ 150 °C	min	<b>310</b>	D-2272

- Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provide in the Safety Data Sheet (SDS) are followed.
- SDS is available upon request through your sales contract office, or E-Mail : [order@apollothai.com](mailto:order@apollothai.com)
- Due to continual product research and development, the information contained herein is subject to change without notification.