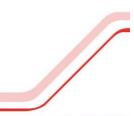
DAPHNE SUPER TURBINE OIL MS32



Description	Daphne Super Turbine Oil MS32 is recommended for use in turbo systems such as gas turbine and designed to satisfy MS04-MA-CL006 standard.
Features & Characteristics	 Daphne Super Turbine Oil MS32 is epoch-making and super long-life turbine oil produced from highly hydrogenated paraffinic base oils and the additives including low-volatile oxidation inhibitor, rust preventives, and antifoaming agent, with suitable blending ratio. (1) Excellent oxidation stability even at high temperature environment such as gas turbine achieves extremely long service life characteristics. (2) Sulfur content is extremely low, leading to excellent oxidation stability and discoloration prevention of white metals. (3) High lubricity reduces metal wear at lubricating locations in bearings. (4) Less generation of sludge and varnish provides ultrahigh performance as a turbine oil.

Viscosity Grade and Conforming Specification/Approval

Specification		Super Turbine Oil MS 32
Confirmed	ISO8068 TSA/TGA,TGB/TSGB	0
	JIS K2213 Type 2	0
	ASTM D4304 Type Ⅰ,Ⅲ	0
	DIN 51515-1, 51515-2	0
	GEK 32568K	0
	GEK 107395A	0
	GEK 27070	0
	GEK 46506e	0
	GEK 120498	0
	GEK 28143b	0
Approved	MS04-MA-CL006	0



Chemical and Physical Properties	Test Item	Test Method	Unit	MS32 Result
	Density at 15°C	ASTM D4052	g/cm ³	0.852
	Color(ASTM)	ASTM D1500	-	L1.0
	Flash Point (C.O.C)	ASTM D93	°C	220
	Viscosity at 40°C	ASTM D445	mm²/s	32.4
	Viscosity at 100°C	ASTM D445	mm²/s	5.7
	Viscosity Index	ASTM D2270	-	119
	Acid Number	ASTM D974	mgKOH/g	0.1
	Copper Corrosion 100°CX3h	ASTM D130	-	1(1b)
	Pour Point	ASTM D97	°C	-17.5
	Foaming Sequence I 24°C	ASTM D892	ml	10-0
	RPVOT @150°C	ASTM D2272	min	2738
	Water separability $@54^\circ C$ to $3m$ emulsior	ASTM D1401 เ	min	5

Cautions

The Oil may turn reddish color due to storage environment, e.g., exposure to ultraviolet light.

Please be assured that the color change does not affect the performance of the product.

• Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Safety Data Sheet (SDS) are followed.

• SDS is available upon request through your sales contract office, or via the internet. https://www.idemitsu.com/jp/business/lube/

• Due to continual product research and development, the information contained herein is subject to change without notificati

Malaysia

Idemitsu Lube (Malaysia) Sdn. Bhd.

Kuala Lumpur Branch

Tel: (60) 3 6157 9529 Fax: +60 3 6157 9636 Johor Branch Tel: (60) 7 550 0460 Fax: +60 7 550 0466 Penang Branch Tel: (60) 4 501 2268 Fax: +60 4 501 2269

Singapore Branch

Tel: (65) 6256 6843 Fax: +65 6256 6384

Thailand Apollo (Thailand) Co., Ltd Tel: (66) 3 845 6900 Fax: (66) 3 821 0099

Vietnam Idemitsu Lube Vietnam Co., Ltd. Tel: (84) 31 3246 508 Fax: (84) 31 3246 509

India Idemitsu Lube India Pvt. Ltd. Tel: (91) 11 66794200 Fax: (91) 11 66794259 Indonesia PT. Idemitsu Lube Techno Indonesia PT. Idemitsu Lube Indonesia Tel:(62) 21 8997 7630

Philippines Idemitsu Lubricants Philippines Inc. Tel: (63) 2 8 282 855 Fax: (63) 2 8 524 0617