



## **DAPHNE HI-TEMP OIL AM**

*~Bright type Quenching Oil~*

### 1. Application

Quenching oil for hot quench used at high temperature, so if the quenching oil is in contact with air it will oxidize and deteriorate and the brightness tends to be worse in a short time.

DAPHNE HI-THEP OIL AM is quenching oil developed for an open type oil tank, and exhibits an excellent brightness life even in a situation where quenching oil is in contact with air.

### 2. Characteristics

- DAPHNE HI-TEMP OIL AM has excellent oxidation stability.

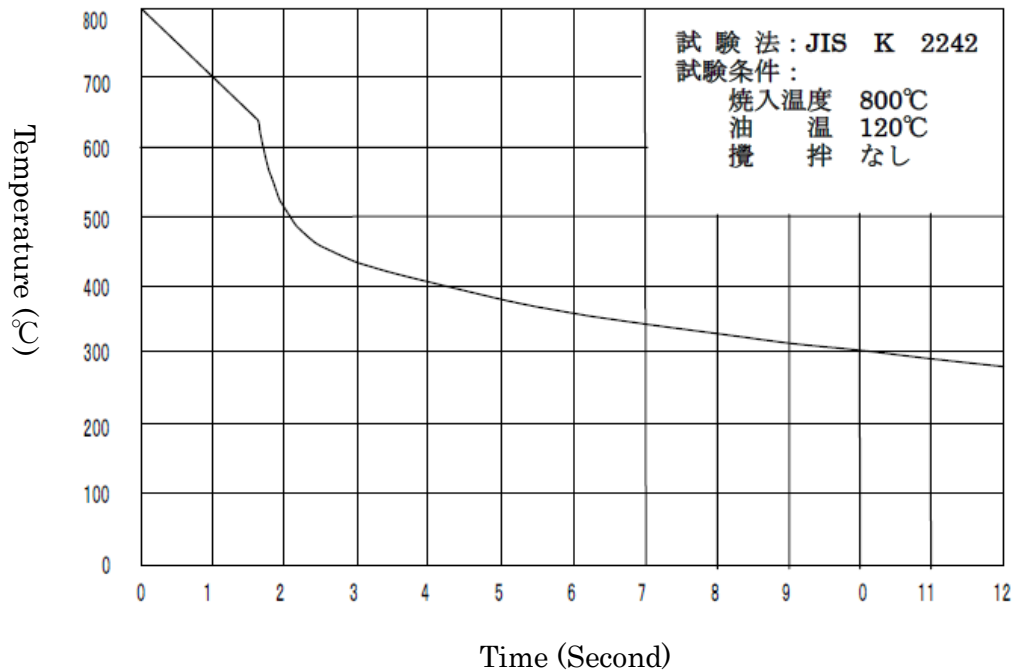
Due to its excellent oxidation stability, it is difficult to occur thermal decomposition and it prevents from degradation and change of cooling performance.

- Even when sludge is generated under severe conditions, since the sludge is not easily dispersed in oil, it is possible to restore the brilliance by centrifuging.

### 3. Specifications

Test Item			Typical specification
Color	(ASTM)		L 2.5
Flush point	(COC)	°C	280
Kinetic viscosity	@40°C	mm <sup>2</sup> /s	169.5
	@100°C	mm <sup>2</sup> /s	16.95
Acid number		mgKOH/g	0.04
Carbon residue		wt%	0.46
H-Value	@120°C	cm <sup>-1</sup>	0.099

## 4. Cooling Curve



## 5. Oxidation Stability Test

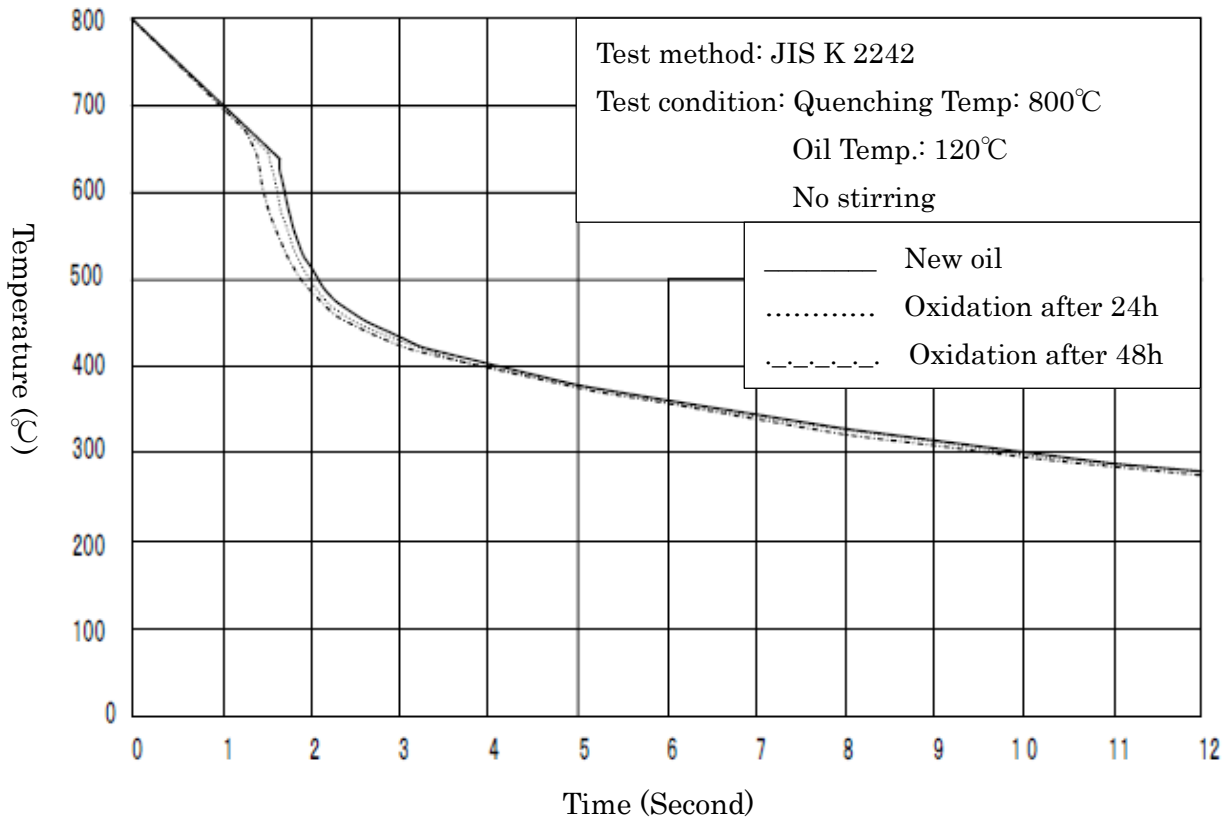
### (1) Condition

Oil Temperature : 170°C  
 Air blowing : 10L / h  
 Test time : 24h, 48h  
 Catalysts : Cu · Fe

### (2) Results

Test Items			Test Time		
			0	24	48
Kinetic viscosity	@100°C	mm <sup>2</sup> /s	16.95	17.19	17.56
Kinetic viscosity ratio to new oil			-	1.01	1.04
Acid Number		mgKOH/g	0.04	0.37	0.58
Carbon residue		wt%	0.46	0.48	0.53
Insoluble N-normal pentane		wt%	-	0.01	0.01
H value	@120°C	cm <sup>-1</sup>	0.099	0.101	0.103
Brightness		%	82	88	86

## Cooling Curve after oxidative degradation



- 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 via the internet.  
<https://www.idss.co.jp/business/lube/>
- Due to continual product research and development, the information contained herein is subject to change without notification.

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