



Idemitsu Apollo (Thailand) Co., Ltd.

บริษัท อี데미ตสึ อพอลโล (ประเทศไทย) จำกัด

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DAPHNE SUPER HYDRO ST

Energy-saving, high viscosity index non-Zn hydraulic oil

1. Application

Daphne super hydro ST is an energy-saving hydraulic oil developed to realize energy saving by hydraulic oil.

Excellent energy saving effect is demonstrated in various hydraulic devices. It is also a hydraulic fluid that can be applied to high-performance and high-pressure hydraulic equipment that is susceptible to thermal loads.

This oil has energy-saving effects on precision hydraulic equipment that does not adapt to viscosity changes, hydraulic systems that operate at high pressure and high speed, or in cold regions.

2. Quality

This is an energy-saving, low-friction, high-viscosity-index non-Zn-based wear-resistant hydraulic oil. It combines a paraffinic base oil that has been subjected to a highly hydro reforming process with various additives, including additives that achieve a low friction and high viscosity index.

3. Characteristic

- (1) This is an energy-saving hydraulic oil that can reduce power loss and consumption.
Since the pour point is extremely low and the viscosity index is high, the starting torque at low temperatures is small and power loss can be reduced. In addition, the warm-up time can be drastically shortened. The special additives also reduce power consumption during steady-state operation.
- (2) It adopts high viscosity index oil. Therefore, it has excellent shear stability as the high viscosity index oil, and the viscosity lowering is extremely small even under the use conditions at high pressure, and the stable properties can be maintained.
- (3) Excellent heat resistance lead to low sludge generation, and little sludge adherence to tanks and filters
- (4) Since it has excellent wear resistance, it is possible to reduce wear of hydraulic pumps, motors, actuators, etc
- (5) It has excellent compatibility with rubber materials such as seals and O-rings, and is excellent in lubrication of seals and cylinders. Therefore, it is possible to prevent damage to the seals, dirt and oil leakage from the cylinders, etc.



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4. Equivalent standard

It meets ISO 11158 HV,ASTM D 6158 HV,DIN 515242 HLPV.

5. Typical standard

TEST	DAPNE SUPER HYDRO ST		
	VG32	VG46	
Density @15°C g/cm ³	0.85	0.86	
Color ASTM	L0.5	L0.5	
Flush point COC °C	224	242	
Kinetic Viscosity mm ² /s	@ 40°C	32.48	46.25
	@100°C	6.298	8.238
Viscosity Index	148	154	
Pour Point °C	-47.5	-42.5	
Acid Number mgKOH/g	0.23	0.20	
Demulsibility @54°C min	10	10	
Copper Corrosion 100°Cx3h	1 (1b)	1 (1b)	

- 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
- Due to continual product research and development, the information contained herein is subject to change without notification.