

Machine tool hydraulic oil (L-HL)

Performance Overview

It is a kind of anti-oxygen and anti-rust hydraulic oil, which is made of high quality compound additive and deep refined and hydrorefined base oil. Designed for machine tool hydraulic systemFor stable lubrication solutions, viscosity grades: available in a variety of grades to meet the lubrication needs of light duty to medium and heavy duty machine tools. Rust resistance: through 24 hours liquid phase corrosion Test (no rust), copper corrosion test (100°C/3h) up to level 1 standard, protect key components from corrosion. Low temperature fluidity: pour point as low as -12 ° C (such as 15# grade), to meet the short-term use needs of northern winter.

Features

01

Long-term anti-rust protection, adding compound anti-rust agent to form a dense protective film in humid environment, especially suitable for machine tool headstock and gear box in high humidity areas in the south.

03

Environmental compatibility, does not contain heavy metals additives, in line with the eu RoHS directive; Compatible with mineral oil type seals to avoid hardening or expansion of seals.

02

Excellent oxidation resistance, inhibit oil degradation at high temperatures, reduce sludge generation, and extend the oil change cycle to 1.5-2 times that of traditional hydraulic oil.

04

Balance anti-wear performance, although it is a universal hydraulic oil, but add anti-wear agent to reduce the wear of the pump body to less than 600mg (four-ball method test), compatible with the hydraulic system with gearbox.



Application Scenario \

It is used in low-pressure gear pumps for machine tools and other equipment. It can also be used in mechanical equipment that uses other anti-oxidation and anti-rust lubricants, but it cannot be used as high-grade machine tool hydraulic oil, let alone anti-wear hydraulic oil. The product should be used in a temperature range of 0~80°C

TEL: +864008330667 Website: www.maxtop-oil.com



Machine tool hydraulic oil performance indicators (L-HL)

Project		Quality indicators							
Model		15	22	32	46	68	100	150	
		1.0	22	32			100	130	
Density (20℃) / (kg/m3)		Report							
Chroma /No.		Report							
Appearance		transparent							
Flash point (open) /°C	No less than	140	165	175	185	195	205	215	
Kinematic viscosity/(mm2/s)				28.8-	41.4-	61.2-	90-	135-	
40°C		16.5	24.2	35.2	50.6	74.8	110	165	
0°C	not more than	140	300	420	780		2560	_	
Viscosity index b	Not less than	80							
Pour point c /°C	No higher than	-12	-9	-6	-6	-6	-6	-6	
Acid value d (in KOH)/(mg/g)		Report							
Water content (mass fraction) /%	No more than	trace							
Mechanical impurities			none						
Copper corrosion (100°C, 3h)/level No more than			1						
Liquid phase corrosion (24h)		Rust-free							
Foaming properties (foaming tendency / foaming stability)/ (mL/mL)									
Program I (24°C)	No more than	150/0							
Procedure II (93.5 ℃)	No more than	75/0							
Program III (24°C later)	No more than	150/0							
Air release value (50°C)/min No more than		5	7	7	10	12	15	25	
Demulsification (time for emulsion to reach 3ml) /min									
54 ℃	No more than	30	30	30	30	30	-	-	
82 ℃	No more than	-	-	-	-	-	30	30	
Seal Adaptability Index	No more than	14	12	10	9	7	6	Report	



TEL: +8613541155698 EMAIL: maxtop@maxtop-oil.com TEL: +864008330667 Website: www.maxtop-oil.com