



LAIJUTSU SHL- I218,I219, I220, I221, I222, I223, I224

Product Description:

LAIJUTSU Hydraulic Oil AWW Series oils are made from petroleum-based fluid that is ideal for hydraulic systems, transmissions, and pumps operating in a range of conditions and temperatures. With its high viscosity index and low pour points, it ensures proper flow at low temperatures and excellent fluid-film strength at high temperatures.

Applications / Benefits:

Prevents wear
Protects against rust and corrosion
Resists foaming & separates readily from water
Superior filterability

Specifications, Approvals & Recommendations

ASTM D6158 (HM, HV)
AIST 126, 127
Bosch Rexroth RDE 90235
DIN 51524-2 (HM)
DIN 51524-3 (HV)
Eaton E-FDGN-TB002-E
Fives P68, P69, P70 (HM, HV)
GB 11118.1-2011 (L-HL, L-HM, L-HV, L-HS)
GM LS-2
ISO 11158 (HM, HV)
JCMAS P041 HK Hydraulic specification
Parker (formerly Denison) HF-0, HF-1, HF-2 (HM, HV)
SAE MS 1004 (HM, HV)
SEB 181222

Typical Physical Characteristics

Test Description	Method	SHL-I218	SHL-I219	SHL-I220	SHL-I221	SHL-I222	SHL-I223	SHL-I224
SAE Viscosity Grade	-	15	22	32	46	68	100	150
Specific Gravity @ 15 °C	ASTM D 4052	0.845	0.850	0.859	0.864	0.866	0.869	0.875
Flash Point, °C	ASTM D 92	164	182	200	212	210	230	232
Pour Point, °C	ASTM D 97	-45	-45	-39	-36	-36	-33	-30
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	15.02	22.40	31.60	44.50	66.10	99.60	145.00
cSt @ 100°C	ASTM D 445	3.88	4.97	6.21	7.80	10.60	14.80	19.10
Viscosity Index	ASTM D 2270	161	155	150	146	150	155	150
Color	ASTM D 1500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Health, Safety & Environment

Health and Safety

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from your Shinloub representative.

Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.