THERMAL-LUBE

SYNTHETIC HYDRAULIC FLUID ANTI-WEAR, ANTI-RUST, AND ANTIOXIDANT

XL7325

Dec. 2025

The **XL7325** series is designed to meet industrial and self-propelled specifications where a very high quality synthetic hydraulic oil is essential. **XL7325** is available in all standard ISO grades as well as in four-season multigrade.

XL7325 is made from synthetic base oil with a high viscosity index (VI) and remains stable over a wide range of temperatures. **XL7325** gives excellent lubrication for periods many times longer than conventional mineral oils, under normal conditions.

XL7325 is formulated with all the necessary additives anti-wear, anti-rust and antioxidant to meet manufacturers' specifications. This oil is recommended for hydraulic circulation systems including paper machines and vacuum pumps requiring an anti-wear lubricating oil.

Thanks to this assembly of additives, **XL7325** can also be used as a lubricating oil for general use. Recommended up to 8,000 hours of service (normal operating conditions) between oil changes. Periodic analysis of the oil is always recommended.

TYPICAL SPECIFICATIONS

Product Code: XL7325	/022	/032	/046	/038	/068	/100	/104	/220	/320
Grade ISO	22	32	46	-	68	100	-	220	320
Grade SAE	-	-	-	5w20	-	-	10w40	-	-
Viscosity (cSt @ 40°C) (ASTM D445) (cSt @ 100°C) (ASTM D445)	21.5 4.8	29.3 5.8	41.5 7.3	38.9 7.8	63.5 9.9	97.2 13.5	92.3 13.7	210 24.5	315 32.6
Viscosity Index (ASTM D2270)	151	145	141	176	140	139	151	146	145
Flash point (°C)	202	210	214	212	222	225	204	225	228
Flow point (°C) (ASTM D97)	-65	-49	-40	-42	-40	-35	-50	-31	-28
Specific severity (g/ml)	0.85	0.85	0.86	0.87	0.87	0.87	0.88	0.88	0.88
Oxidation resistance (Hours up to acidity 2.0 mg KOH/g) (modified ASTM D943)	>18,000 hours								
Charge Timken OK (kg)	30	30	30	30	32	32	35	38	40
Damage floor FZG (DIN 51354, 2nd part)	>12	>12	>12	>12	>12	>12	>12	>12	>12
Shelf Life (Months) (Storage of sealed drums)	>60								
Colour	Blue, Gold, Natural								

XL7325 meets or exceeds the following manufacturer's specifications :

- Vickers 1-286-S, M-2950-S
- Denison HF-1, HF-2, HF-0
- Racine, variable volume vane pumps
- Cincinnati Milacron P-68, P-69, P-70
- Lee-Norse 100-1
- DIN 51524 part 2 Commercial Hydraulics
  (Excepté les pompes PM-500 avec des pièces en argent)
- Jeffery #87
- Ford M-6C32
- US Steel 136, 127
- BF Goodrich 0152
- GM LH-04-1, LH-06-1, LH-15-1
- AFNOR E 48-603

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PERFORMANCE SUMMARY XL7325/068 (ISO 68*)		
TEST PROCEDURE	**SPECIFICATION**	**RESULT**
Rotary Bomb (minutes to 25psi loss)	ASTM D2272	300
Oxidation of turbine oil (hours to 2.0 TAN)	ASTM D943	2700+
Corrosion of sludge and metals (1000h) Insoluble sludge (mg) Total Cu (mg) Total Fe (mg)	ASTM D4310	 28 1.3 1.1
Thermal stability (168h, 135°C, Cu-FE Catalyst) Mud (mg/100ml) Condition du Cu Rod (SM colour class) Condition du Fe Rod (SM colour class)	Cincinnati – Milacron	 15 3 2
Copper corrosion	ASTM D130	1a
Turbine oil rust test (a) Distilled water (b) Synthetic seawater	ASTM D665	 Pass Pass
Acid level (TAN) – New oil (mg KOH/g)	ASTM D974	0.15
Foam test Sequence 1 Sequence 2 Sequence 3	ASTM D892	 0-0 0-0 0-0

**Although the data in this summary table are based on the results obtained in tests carried out with AW XL7325/068 Synthetic Hydraulic Oil (ISO VG 68), we are convinced that similar results can be extrapolated for all other viscosity levels.*

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