

ANTI-WEAR HYDRAULIC OIL

INDUSTRIAL LUBRICANTS AND GEAR OILS

OEMs continue to evolve hydraulic equipment and pump designs. Pumps get smaller and power output increase and the lubricants performance demands rise. Escalating power density leads to higher operating temperatures and pressures. One brand has evolved right alongside today's equipment — Volotec. Only the most advanced industrial lubricants meet the difficult challenges of effectively balancing performance, strength and durability.

SUPERIOR PROTECTION

Volotec hydraulic oils are designed to help improve uptime, reduce costs and increase productivity. Our hydraulic oils offer energy-efficient benefits and improved performance across a wide range of temperatures. They specifically designed to meet the demands of high-pressure, industrial and mobile equipment hydraulic systems. Formulated to provide 5,000 hours of oxidation stability.

POWERFUL ANTI-FRICTION, ANTI-WEAR CHEMISTRY

Volotec provides outstanding control of friction and wear. Advanced molecules bond together to create a wear-resistant shield that works to build barriers that reduce friction and wear.

WITHSTANDS THE MOST EXTREME CONDITIONS

Volotec Anti-Wear Hydraulic Oils provide unsurpassed protection even in the harshest conditions to fight oxidation, separate air and water and improve filtration.

ANTI-WEAR HYDRAULIC OILS

The latest Volotec Anti-Wear Hydraulic Oils are specially engineered and formulated to provide:

PERFORMANCE

Extra protection for equipment life and reliability.

Excellent varnish control and cleanliness.

STRENGTH

Outstanding wear and corrosion protection.

DURABILITY

Formulated to provide 5,000 hours of oxidation stability.

Optimized maintenance cost and uptime.

TYPICAL PROPERTIES

Viscosity Grade		Anti-Wear ISO	Anti-Wear ISO	Anti-Wear ISO	Anti-Wear ISO	Anti-Wear ISO	All Year Hyd
Calcium, wt.	ASTM D5185	0.003	0.003	0.003	0.003	0.003	-
Color	ASTM D1500	0.5	0.5	0.5	0.5	0.5	0.5
Gravity, °API	ASTM D287	33.50	32.44	31.46	30.71	30.12	33.09
Oxidation Hours	ASTM D943	5000	5000	5000	5000	5000	5000
Phosphorus, wt. %	ASTM D5185	0.033	0.033	0.033	0.033	0.033	0.034
Pour Point °C (°F)	ASTM D5950	-42°C (-44°F)	-39°C (-38°F)	-33°C (-27°F)	-30°C (-22°F)	-30°C (-22°F)	-42°C (-44°F)
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8576	0.8631	0.8683	0.8723	0.8755	0.8597
Sulfur, wt. %	ASTM D4951	0.065	0.065	0.065	0.065	0.065	0.071
Viscosity @ 100°C cSt	ASTM D445	4.36	5.55	6.95	8.95	11.31	7.89
Viscosity @ 40°C cSt	ASTM D445	21.82	32.11	46.03	69.25	99.86	44.86
Viscosity Index	ASTM D2270	107	110	105	103	99	148
Zinc, wt. %	ASTM D5185	0.041	0.041	0.041	0.041	0.041	0.043
Flash Point °C	ASTM D92	-	210	225	228	-	-
Flash Point °F	ASTM D92	-	410	437	442	-	-
Vapor Pressure at 20°C		-	<0.013 kPa at 20°C	<0.013 kPa at 20°C	<0.013 kPa at 20°C	-	-

INDUSTRY/OEM APPROVALS

Title	Anti-Wear ISO 22	Anti-Wear ISO 32	Anti-Wear ISO 46	Anti-Wear ISO 68	Anti-Wear ISO 100 All Year Hyd
A CTM DC1E0	Meets	Meets	Meets	Meets	Meets
ASTM D6158	Requirements	Requirements	Requirements	Requirements	Requirements
Pagab Paymeth	Suitable for				
Bosch Rexroth	Use	Use	Use	Use	Use
DIN 51524, Part	Suitable for				
1,2,3	Use	Use	Use	Use	Use
Eaton E-FDGN-	Meets	Meets	Meets	Meets	Meets
TB002-E, 35VQ25A	Requirements	Requirements	Requirements	Requirements	Requirements
General Motors	Suitable for				
LS-2	Use	Use	Use	Use	Use
JCMAS HK	Suitable for				
	Use	Use	Use	Use	Use
Parker Denison	Suitable for				
HF-0, HF-1	Use	Use	Use	Use	Use
Parker Denison	Suitable for				
HF-2	Use	Use	Use	Use	Use
Desire	Suitable for				
Racine	Use	Use	Use	Use	Use
Sperry					
Vickers/Eaton	Suitable for	Suitable for	Suitable for	Suitable for	
I-286-S, M-	Use	Use	Use	Use	-
2950-S					
US Steel 127,	Suitable for				
136	Use	Use	Use	Use	Use
Cincinnati/MAG	_	Suitable for	_	_	
IAS P-68		Use			
Cincinnati/MAG			Suitable for		
IAS P-70	-	-	Use	-	-
Cincinnati/MAG				Suitable for	
IAS P-69	-	-	-	Use	-
Sperry					
Vickers/Eaton					Suitable for
I-286-S, M-	-	-	-	-	Use
2950-S					

Information accurate as of September 9, 2024