



TRIAX HVLP MULTI-VISCOSITY HYDRAULIC FLUID

SYNTHETIC BLEND 6000 HOUR, EXTREME ANTI-WEAR VARIABLE VISCOSITY, COLD TEMP HYDRAULIC

PRODUCT
TECHNICAL
SHEET

Product Description

TRIAX HVLP Multi-Viscosity Hydraulic fluid is a top tier hydraulic fluid designed for the most demanding hydraulic applications. This product is a fairly unique fluid, designed to fit both high vis and low vis hydraulic requirements with an extremely wide temperature range. TRIAX HVLP Multi-Vis is high detergency, HVLP class fluid, with an extremely high VI Index and maximum anti-wear protection package, triple that of regular hydraulic fluids.

It is a synthetic blend base oil reinforced with a custom, superior performance additive package to protect hydraulic pumps, gears, vanes and pistons and extend their life up to three times longer than normal hydraulic fluids.

VARIABLE VISCOSITY

TRIAX HVLP MULTI-VIS is a multi-viscosity fluid, it has a very wide operating temperature range, allowing flawless operation without the need to switch fluids from hot to cold ambient temperatures.

SUPERIOR FLUIDITY AND HOT / COLD WEATHER PERFORMANCE

TRIAX HVLP MULTI-VIS will flow down to - 46 C and will maintain its viscosity characteristics in extremely hot and cold ambient temperatures, changing its viscosity accordingly, to maximize performance, fuel economy and protection.

VIRTUALLY ZERO FOAMING

Exceptional quality foaming inhibitors and stabilizers, maximize hydraulic oil aeration, preventing the formation of foam and trapping air in the hydraulic system, resulting in virtually zero foaming in nearly all operating conditions.

EXTREME ANTI-WEAR PROTECTION

TRIAX HVLP MULTI-VIS contains next generation additive technology for wear reduction in high pressure application to protect vanes, gears and pumps for up to 6000 hours of operation.

CAVITATION PROTECTION

TRIAX HVLP MULTI-VIS hydraulic oils virtually eliminate hydraulic cavitation wear in mechanically sound equipment. Fluid stability, aeration and anti-foaming characteristics all play a critical role in preventing cavitation wear on valves, piston walls, cylinder walls. This fluid is recommended for high- and low-pressure gear, vane and piston stationary and mobile hydraulic systems, including those with bronze metallurgy.

VISCOSITY STABILITY & HIGH TEMP PROTECTION - 156 VISCOSITY INDEX

TRIAX HVLP MULTI-VIS feature a very high VI index, 56% higher than most other fluids sold by any brand, anywhere. High VI index protects the oil against thermal degradation and imparts exceptionally wide temperature operating range.

Benefits and Advantages

- ▶ -46 C pour point for extreme cold applications
- ▶ Specifically designed to maximize protection to hydraulic pump and their parts
- ▶ Virtually ZERO foaming in extreme work conditions
- ▶ Provide excellent demulsibility and rust protection
- ▶ Very high anti-wear additives concentration - **double that of regular AW fluids.**
- ▶ Superior heat transfer properties to maximize continuous work time.
- ▶ Superior filterability is provided with excellent thermal and hydrolytic stability thus preventing the formation of deposits which may interfere with filtration in equipment that has low tolerances
- ▶ Very high viscosity index guarantees exceptional viscosity stability, thus minimum viscosity changes with high temperature. Fluid will not thin out at high temperature operation.
- ▶ Flawless hydraulic response



Packaging

55 US gal (208 Liters) 1 US gal (3.78L)
5 US gal (18.2 Liters)

Applications

TRIAX HVLP Hydraulic Fluids are recommended for service in vane, piston, and gear pumps in both normal temperatures and ultra-cold arctic conditions and when used in accordance with the manufacturers' recommendations, including Parker Dennison hydraulics. Designed for heavy duty service to provide excellent service life to these pumps as well as to other circuit components such as motors and servos. TRIAX HVLP MULTI-VIS fluids are also recommended for use as a gear and bearing lubricant in industrial applications where rust and oxidation inhibited oils are required.

Specifications

- ▶ PARKER HANNIFIN FRANCE (DENISON) HF-0, HF2, HF2
- ▶ EATON BROCHURE 03-401-2010
- ▶ MAG IAS P-68, P-69, P-70
- ▶ GM LS-2
- ▶ JCMAS HK
- ▶ US STEEL 127 & 136
- ▶ BOSCH REXROTH RD90220
- ▶ SAE MS1004
- ▶ DIN 51524 Part 3
- ▶ HPLD high detergency fluid
- ▶ JCB Standard: 4002/1000 (ISO 32)
- ▶ JCB Standard: 4002/0800 (ISO 46)
- ▶ JCB Standard: 4002/0700 (ISO 68)

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CHEMICAL PROPERTIES

TEST / Criteria	ISO 46 Multi-VIS
API Gravity	30.41
Viscosity Kinematic	
cSt, 40°C	46.12
cSt, 100°C	7.2
VI (Viscosity Index)	158
Flash Point (Celsius)	225
Pour Point (Celsius)	-46
Color	1.50
Oxidation Stability – ASTM D943 – Operating Hours to 2.0 AN	6000+
Air release - D3427	1.9
Foaming Sequences 1,2, 3 ASTM D892	0/0
	II
	0/0
	III
	0/0
FZG test (A8, 3/90) - fail load stage, DIN51345	12
Copper Corrosion, 3 hrs, 121 C (ASTM D130)	1A
Rust Prevention ASTM D665	
distilled water	PASS
synthetic sea water	PASS
Water Separability @54 C, O-W-E ml, min D1401	40-40-0 (15)
time to 3 ml emulsion, minutes	15
time 40-40-0, minutes	15