



TRIAX POWERFLOW MULTIVIS HVLP

SYNTHETIC BLEND Long-life Premium HLP Hydraulic Oils with Double Zinc and Extreme Thermal Stability

PROTECTION
LIKE NOTHING
ELSE™



POWERFLOW

FLAWLESS HYDRAULIC PERFORMANCE

6,000 HOURS OF
UNCOMPROMISING
PROTECTION
AND DURABILITY

DESCRIPTION

TRIAX HVLP Multi-Viscosity Hydraulic fluid is a top tier hydraulic fluid designed for the most demanding hydraulic applications. This product is a 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 economy hydraulic fluids and double of major branded 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.

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.

PERFORMANCE SUMMARY

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. TRIAX Powerflow products have shown virtually zero foaming in the most demanding conditions.

EXTREME ANTI-WEAR PROTECTION

Most hydraulic oils contain around 350-450 parts per million of anti-wear additives and detergents. Powerflow products have double that amount, to guarantee very long equipment and pump life, up to three times longer than normal hydraulic oils. Hydraulic tests have shown 20,000 hours of operation with no noticeable pump, vane, cylinder, valve wear. Tests were performed on 44 pieces of equipment from Caterpillar, Komatsu, JCB, Hitachi and Terex across 3 years of extreme service.

CAVITATION PROTECTION

TRIAX Powerflow 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 and 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

Powerflow hydraulic oils have a very high viscosity index and contain premium viscosity stabilizers, preventing the oil breaking down at high temperatures, dramatically increasing high temperature protection, preventing leaks and system overheating, blockages.

**EXTREME LOW TEMPERATURE OPERATION CAPABILITIES DOWN TO -45 CELSIUS,
ELIMINATES THE REQUIREMENT OF SWITCHING FLUIDS IN WINTER.**

*6000 hour fluid life
in severe service.*

Reduces fluid related maintenance costs by up to 62% vs standard fluids.

*Virtually ZERO foaming
and ultra rapid aeration*

*Flawless hydraulic response in
severe service applications.*

*Double or triple anti-wear
protection vs regular fluids.*

*High VI INDEX for superior
viscosity stability.*

*Prevents cavitation, overheat-
ing and loss of viscosity.*

*Provide excellent demulsibility
and rust protection.*

*Superb thermal transfer
properties.*

*Excellent shear stability will
maintain fluid viscosity*

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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PERFORMANCE CHARACTERISTICS

Most other fluids (represents an average of over 41 brands of hydraulic oil)
 TRIAX POWERFLOW HVLP MULTIVISCOSITY FLUIDS



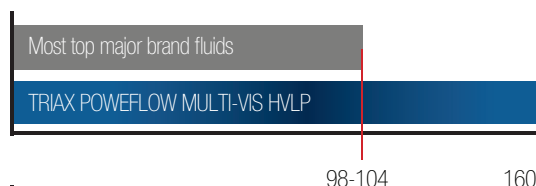
POWERFLOW

FLAWLESS HYDRAULIC PERFORMANCE

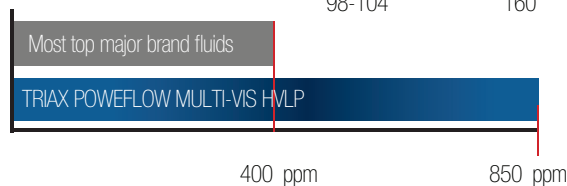
54% Better viscosity stability and high temperature protection than most other hydraulic oils.

112.50% better anti-wear protection in the most extreme conditions.
IMPROVED EQUIPMENT & PARTS LIFE

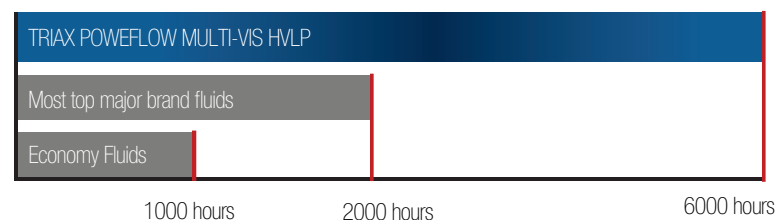
Viscosity Index ISO 46



Anti-Wear Protection Zinc PPM (Parts per Million) - all grades



Useful fluid life: how long it takes for the protective additives in the fluid to



600%-300% guaranteed longer fluid life vs most other hydraulic fluids.
SIGNIFICANTLY LOWER LUBRICANT COSTS

CHEMICAL INFORMATION

	ISO 32	ISO 46	ISO 68
API Gravity	31.3	30.4	29.30
Viscosity Kinematic			
cSt, 40°C	32.4	46.12	68.16
cSt, 100°C	5.3	7.2	12.31
VI (Viscosity Index)	160+	160+	160+
Flash Point (C)	225	225	225
Pour Point (C)	-46	-46	-39
Color	1.50	1.50	1.50
Oxidation Stability – ASTM D943 –			
Operating Hours to 2.0 AN	6000+	6000+	6000+
Air release - D3427	1.4	1.9	2.2
Foaming Sequences 1,2, 3 ASTM D892 I	0/0	0/0	0/0
II	0/0	0/0	0/0
III	10/0	0/0	0/0
FZG test (A8, 3/90) - fail load stage, DIN51345	12	12	12
Copper Corrosion, 3 hrs, 121 C (ASTM D130)	1A	1A	1A

ACTUAL PRODUCTS MAY HAVE SMALL VARIATIONS IN THESE NUMBERS, WHICH IS NORMAL FOR THE MANUFACTURING PROCESS AND DO NOT AFFECT PERFORMANCE