



UTF RED PLUS FOR INDUSTRIAL MACHINERY



◆ **Reduces Heat**

Elevated levels of heat in a hydraulic system can lead to countless problems which include cavitation, sputtering, and even equipment stalling or shutting off completely. With a proprietary additive package including an incredibly high Viscosity Index of 170, UTF Red Plus can help your equipment to see extended life, even in the most rigorous of conditions. UTF Red Plus includes exceptional thermal stability additives which maintain fluid integrity even in extreme operations. UTF Red Plus is formulated with a unique polymer package designed to increase the film strength of the oil, allowing for a better film of protection throughout the system. This film of protection allows for reduced friction and maximizes performance. It has been proven to reduce temperatures by 10-20% while maintaining constant hydraulic pressure.

◆ **Increased Pump and Piston Protection**

UTF Red Plus works overtime to protect pumps and pistons in vital equipment. Many hydraulic systems fall victim to excessive foaming. When this foaming occurs in hydraulic systems, cavitation, and excessive heat are introduced. This leads to a breakdown of the lubricity of the oil and results in premature failure of hoses, fittings, pistons, and pumps. UTF Red Plus has a fortified formulation designed to prevent this phenomenon from occurring. In addition to preventing the harmful foam, UTF Red Plus is designed to increase vital component life with an additive package which includes a minimum of 2% high-quality zinc, for anti-wear. This amount of additive is substantially more than average hydraulic oil. Additionally, UTF Red Plus has a slight tackifier to coat the vanes in pumps, and throughout the entire system. This distinctive feature becomes a major benefit if a hose breaks and you lose hydraulic oil, as your pump will still be coated with oil and failure may be prevented.

◆ **Replenishes Seals**

UTF Red is enriched with an additive package which prolongs the life of seals, maintaining the shape and size of new seals while revitalizing the old. Providing the seal is not damaged, hydraulic leaks will either slow down or completely stop. By preventing leaks with UTF Red Plus, the correct oil level is maintained. When leaks cause the oil level to drop too low, the machinery starts overheating and, consequently, machinery and hydraulic oil deterioration is accelerated. Major failure can occur. A leaking hydraulic system is wasteful and costly. When leaks occur, it results in a non-optimal work environment. Employees will have to repeatedly stop what they are doing to clean up leaked hydraulic oil and set up buckets and rags to catch the leaking oil. If these leaks go untreated, they become messy and lead to an unsafe workplace. This added benefit of UTF Red Plus increases profit and reduces the hours spent on cleaning.

♦ **Wide Operating Temperature**

UTF Red Plus is a 10W/30 multi-viscosity oil and will flow easily whether the ambient temperature is extremely hot or very cold. This is especially important for plants which start before sunrise in the winter. Hydraulic equipment responds sluggishly in the cold and does not move as quickly as it should until it has been working for a while and has warmed up. With UTF Red Plus, this does not happen. The machinery responds readily and immediately upon start up. Additionally, because UTF Red Plus is a 10W/30 viscosity hydraulic oil, it can replace hydraulic oils which are ISO 32, 46, 68 and 100 weights. Due to its viscosity range, UTF Red Plus can often eliminate the need for a facility to use multiple hydraulic oil viscosities.

♦ **Added Value**

UTF Red Plus will demulsify water, which means it keeps water "at bay", preventing it from mixing and emulsifying with the oil. If water emulsifies with oil, it will cause metal to rust and corrode. By preventing the harsh environment caused by free water in a hydraulic system, UTF RED Plus will extend the life of the equipment exponentially. In addition to these properties, UTF Red Plus is bright red. This benefit helps the oil level in the sight glass to be more visible. Regular hydraulic oil can be difficult to see in plants which have a lot of debris in the air or poor lighting which prevents one from seeing the oil level. With UTF Red Plus, being bright red in color, the level can always be seen, especially if there is a leak. Also, being bright red makes it less likely the wrong oil will be put in the wrong machine.

SPECIFICATIONS

UTF RED PLUS

Product Code #106435

Hydraulic Testing Specifications: Denison HF-0, HF-1, HF-2, MAG Cincinnati Machine, Sauer-Danfoss/Hydrostatic Fluid, Vickers (Eaton) I-286-S, 35VQ25m, M-2950-S, US Steel 136 and 127, Bosch-Rexroth-Racine Variable Vane Pumps, AFNOR NFE 48-603, AFNOR NFE 48-690, AFNOR NFE 48-691. Other Commercial Hydraulics except for PM-500 Series silver containing pumps which require R & O additive systems.

Dielectric Strength	35,000+ KV
Percent weight of:	
Zinc	.20 Minimum
Phosphorous	.11 Minimum
Calcium	.42 Minimum
Viscosity Index	170 Minimum
Base Number	14
Kinematic Viscosity, cSt at 40°C	58.5
Kinematic Viscosity, cSt at 100°C (ISO 3104)	9.5
Brookfield Viscosity @ -35°C, cSt (ASTM D2983)	37,500
Flash Point, °F	485
Pour Point, °F	-40
Copper Strip Corrosion	1A
4-Ball EP Test (ASTM D2783 EPF)	
Corrected Load	121.49 kgf
4-Ball Wear Scar (ASTM D4172)	
Scar	0.35 mm
Plessey-Sundstrand Gear Pump Test	
Flow Degradation % 1,000 Hour Test	0.0%
Industry Standard	5% Maximum
Sundstrand	
Model 22-2132 Variable Displacement Piston Pump Test	
Flow Degradation % w/ 1% Water	0.6%
Industry Standard	10% Maximum
Oxidation Test (hrs.) (ASTM D943)	10,000+
FZG Load	12

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PRINTED IN U.S.A. 2022
L306436