



# ANTI-WEAR HYDRAULIC OIL

- **REDUCES COSTLY WEAR**
- **RESISTS CHEMICAL BREAKDOWN**
- **PROTECTS SEALS**
- **RESISTS FOAMING**
- **RUST PROTECTION**
- **DEPENDABLE**

The foundation for TRC ANTI-WEAR HYDRAULIC OILS are hydrotreated, high VI base oils designed for anti-wear which contain Zinc/Phosphorous additive for long-time service in both high and low pressure, industrial and mobile hydraulic systems. Our formulation incorporates anti-wear additives as well as additives to control foaming and air entrainment. TRC ANTI-WEAR HYDRAULIC OIL offers good water separation and anti-rust properties.

## ANTI-WEAR HYDRAULIC OIL Reduces Costly Wear

ANTI-WEAR HYDRAULIC OIL is a high quality, stable product formulated to provide excellent performance. Increased protection against surface wear is accomplished with the use of ANTI-WEAR HYDRAULIC OIL - - it forms a film on metal surfaces, reducing metal to metal contact. Texas Refinery Corp. incorporates more zinc (an anti-wear additive) into its ANTI-WEAR HYDRAULIC OIL, than is required on most equipment specifications - - an extra step to prolong the life of equipment. Reducing friction wear often reduces operating temperatures and that in turn helps increase the life of the oil and the equipment.

## ANTI-WEAR HYDRAULIC OIL Resists Chemical Breakdowns

ANTI-WEAR HYDRAULIC OILs are subjected to many problem-causing factors - - high temperatures, water, air, and foreign debris. This combination leads to oxidation, producing sludge, varnish, acids, eventually a thick gummy



*Texas Refinery Corp's ANTI-WEAR HYDRAULIC OIL provides superior protection for hydraulic systems including vane pumps.*

material in the oil. To prevent this, Texas Refinery Corp. manufactures ANTI-WEAR HYDRAULIC OIL from new generation base oils which have a high stability and then TRC boosts the stability even further with extra portions of powerful anti-oxidation additives. In an oxidation test, ANTI-WEAR HYDRAULIC OIL performed satisfactorily for over 6,500 hours, in most grades - - better than two times the target normally sought.

## ANTI-WEAR HYDRAULIC OIL Protects Seals

A hydraulic piston operates under high pressure, requiring a lubricant which reduces friction of the seal material, without damage to the seal itself. ANTI-WEAR HYDRAULIC OIL is formulated with the most up-to-date additives to protect seals. Friction is reduced and longer service life is obtained. This savings is accomplished by using superior quality oils and additives used in Texas Refinery Corp.'s ANTI-WEAR HYDRAULIC OIL formulation.

## ANTI-WEAR HYDRAULIC OIL Resists Foaming

For peak efficiency, hydraulic systems must use an uncontaminated oil as an operating medium. Water contamination, among other things, causes foaming, especially where elevated temperatures are encountered. Also, air entrapped in the system, can cause a foaming problem. Texas Refinery Corp.'s ANTI-WEAR HYDRAULIC OIL contains special anti-foam chemistry in large

amounts, so the fluid releases any air or water that may be causing the foam. Reducing foam also decreases heat, and improves the life of the oil and the equipment.

## ANTI-WEAR HYDRAULIC OIL Protects Against Rust

If an oil is formulated properly, metals should not rust, even if moisture is present. ANTI-WEAR HYDRAULIC OIL has the special additives in large quantities to protect metal surfaces from rust. The film forming chemistry, coats all metal surfaces with a thin film, preventing moisture and other rust promoters from reaching the surfaces. With the use of ANTI-WEAR HYDRAULIC OIL, the worries of rust are over.

## ANTI-WEAR HYDRAULIC OIL Is Dependable

An inferior ANTI-WEAR HYDRAULIC OIL becomes thick when cold and cause a pump to cavitate. When weather is hot, the oil becomes thin, causing a loss around the seals. The thin oil also tends to accelerate wear and give other problems. ANTI-WEAR HYDRAULIC OIL shows very little change in its flow characteristics through its service life. The better quality base oils and superior additives in large quantities helps ANTI-WEAR HYDRAULIC OIL maintain its viscosity and performance - - for dependability!

# SPECIFICATIONS

## ANTI-WEAR HYDRAULIC OIL PRODUCT #108822

ISO Grade Approx. SAE No.		32 10	46 15	68 20
Specific Gravity @ 15.6°C	ASTM D-4052	0.857	0.861	0.867
Viscosity, cSt @ 40°C	ASTM D-445	32	46	68
Viscosity Index	ASTM D-2270	115	113	111
Flash Point, °C	ASTM D-92	>200	>200	>200
Pour Point, °C	ASTM D-97	-36	-33	-33
Demulsibility @ 54°C	ASTM D-1401	40/40/0	40/40/0	40/40/0
Turbine Oil Rust	ASTM D-665	PASS	PASS	PASS
Oxidation Stability, Hours	ASTM D-943	6500+	6500+	6500+

Texas Refinery Corp ANTI-WEAR HYDRAULIC OIL also meets and exceeds the requirements of the following industrial and mobile hydraulic systems; Vickers 35VQ25, Eaton/Vickers 1-286-S, M2950, Denison HF-1, HF-2, HF-0, Cincinnati Milacron P-68, P-69, P-70, Din51524 Part 2, Ford M-6C32, U.S. Steel 136, 127, GM LS-2.



**CANADA**

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PRINTED 2020  
CB108822E