



## ZINC FREE ANTI-WEAR HYDRAULIC FLUID

### DESCRIPTION

49 North® Zinc Free Anti-Wear Hydraulic Fluids are designed to withstand the stress of demanding, constant use in a wide range of pressures and temperatures. Our Zinc Free Anti-Wear Hydraulic Fluids are recommended for use in systems containing all types of hydraulic pumps, including gear, radial piston, axial piston and vane. These quality products are more environmentally friendly and are more compatible with gear, way oils and R&O oils than are conventional Anti-Wear Hydraulic Oils. They are suitable for both stationary and mobile equipment service.

### QUALITIES

Our Zinc Free Anti-Wear Hydraulic Fluids are formulated from superior high quality base stocks and are further fortified with high performance additives that are engineered to provide excellent system performance even in the presence of water. The advanced additive package provides superior anti-wear and anti-foam qualities, rust preventatives, and oxidation inhibitors.

### APPLICATIONS

They are recommended for all types of hydraulic systems and in particular those systems that operate above 1000 psi. Our Zinc Free Anti-Wear Hydraulic Fluids are also recommended for many bearings, machine tools, chains and moderately loaded gears. 49 North® Zinc Free Anti-Wear Hydraulic Fluids satisfy the requirements of all major hydraulic manufacturers including: Vickers, Hagglunds-Denison, Racine, Cincinnati, Milacron, Lee-Norse, and Jeffrey.

### TYPICAL PROPERTIES

ISO Viscosity Grade	32	46	68
Product Code:	33532	33546	33568
API Gravity (ASTM D-1298)	32.5	31.0	30.9
Viscosity (ASTM D 445):			
cSt at 40 <sup>o</sup> C	31	45	66
cSt at 100 <sup>o</sup> C	5.2	6.6	8.4
SUS at 100 <sup>o</sup> F	160	232	342
SUS at 210 <sup>o</sup> F	44	48	55
Viscosity Index (ASTM D2270)	96	97	96
Pour Point (ASTM D 97) °F	-20	-20	-15
Pour Point (ASTM D 97) °C	-29	-29	-26
Flash Point (ASTM D 92) °F	405	410	430
Flash Point (ASTM D 92) °C	207	210	221
Colour (ASTM D-1500)	1.5	2.0	2.5
Turbine Oil Oxidation (D-943) Hrs	4500	4000	3500

## Lubricants For All Reasons