



DYNA-PLEX 21C[®] ZINC FREE ANTI-WEAR HYDRAULIC OIL

Dyna-Plex 21C[®] Zinc Free Anti-Wear (AW) Hydraulic Oils are premium, high performance, anti-wear oils designed for use in environmentally sensitive areas. They provide maximum pump life and trouble-free service. The rust and oxidation preventive capabilities, including superior demulsibility properties, make these oils rugged, even in high-output systems. These oils also feature excellent vane pump and piston pump performance, anti-foam characteristics and superior hydrolytic stability. Dyna-Plex 21C Zinc Free AW Hydraulic Oil's ability to control formation of contaminants helps prevent filter blockage.

Dyna-Plex 21C Zinc Free AW Hydraulic Oils resist deterioration and perform at superior levels, even at high operating temperatures, pressures and speeds and low pour point ensures easy system start-up in cold conditions.

PROPERTY	ASTM TEST METHOD	ISO #32	ISO #46	ISO #68	MULTI-FUNCT #46
Viscosity @ 40°C, cSt	D445	31.20	46.07	68.10	47.00
Viscosity @ 100°C, cSt	D445	5.25	7.00	8.80	7.80
Viscosity Index	D2270	98	109	101	135
Flash Point, COC, °C	D92	210	216	220	210
Flash Point, COC, °F	D92	410	420	428	410
Pour Point, °C	D97	-39	-36	-36	-40
Pour Point, °F	D97	-38	-33	-33	-40
Color	D1500	1.0	1.0	1.5	1.0
Gravity, °API	D287	31.5	30.5	29.5	31.5
Turbine Oil Oxidation	D943	10000+	10000+	10000+	10000+
Copper Strip	D130	1b	1b	1b	1b
Rust Test	D665	Pass	Pass	Pass	Pass
Vane Pump, mgs wt loss	D2882	12	12	12	12
Dielectric Strength, kv		35	35	35	35
FZG Load Stages					
Pass stage	D5182	11	12	N/A	12
Four Ball Wear	D2266	0.52	0.46	0.34	0.46
Biodegradability, %	D5864	28.2	28.0	28.0	

Meets or exceeds the following tests and requirements:

- FZG LS 11/12
- AFNOR - NFE 48-690, NFE 48-691
- Cincinnati Machine - P-68, P-69, P-70
- Denison - HF-0, HF-1, HF-2
- DIN 51524, Part I, Part II
- General Motors - LS-2
- Vickers - I-286-S, M-2950-S, 35VQ25
- Bosch Rexroth - RE 90 220
- ISO 11158 - Categories HH, HL, HM and HR
- Hitachi - EXO 46 (MF46)
- Inherently Biodegradable

HO-12/01.17.13