

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. In addition to having excellent performance, these oils also exhibit inherently biodegradability characteristics.

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.

ASTM TEST <u>METHOD</u>	ISO <u>#32</u>	ISO <u>#46</u>	ISO <u>#68</u>	MULTI-VIS <u>#46</u>
D-445	31.20	46.07	68.10	47.00
-				7.80
			-	135
-		-		210
-				410
-				-40
D-97	-38	-33	-33	-40
D-1500	1.0	1.0	1.5	1.0
D-287	31.5	30.5	29.5	31.5
D-943	10000+	10000+	10000+	10000+
D-130	1b	1b	1b	1b
D-665	Pass	Pass	Pass	Pass
D-2882	12	12	12	12
	35	35	35	35
D-5182	11	12	N/A	12
D-2266	0.52	0.46	0.34	0.46
D-5864	28.2	28.0	28.0	
	METHOD D-445 D-445 D-2270 D-92 D-92 D-97 D-97 D-1500 D-287 D-943 D-130 D-665 D-2882 D-5182 D-2266	METHOD #32 D-445 31.20 D-445 5.25 D-2270 98 D-92 210 D-97 -39 D-97 -38 D-1500 1.0 D-287 31.5 D-943 10000+ D-130 1b D-665 Pass D-2882 12 35 D-5182 11 D-2266 0.52	METHOD #32 #46 D-445 31.20 46.07 D-445 5.25 7.00 D-2270 98 109 D-92 210 216 D-92 410 420 D-97 -39 -36 D-97 -38 -33 D-1500 1.0 1.0 D-287 31.5 30.5 D-943 10000+ 10000+ D-130 1b 1b D-665 Pass Pass D-2882 12 12 35 35 D-5182 11 12 D-2266 0.52 0.46	METHOD #32 #46 #68 D-445 31.20 46.07 68.10 D-445 5.25 7.00 8.80 D-2270 98 109 101 D-92 210 216 220 D-92 410 420 428 D-97 -39 -36 -36 D-97 -38 -33 -33 D-1500 1.0 1.0 1.5 D-287 31.5 30.5 29.5 D-943 10000+ 10000+ 10000+ D-130 1b 1b 1b D-665 Pass Pass Pass D-2882 12 12 12 35 35 35 D-5182 D-5182 11 12 N/A D-2266 0.52 0.46 0.34

Meets or exceeds the following tests and requirements:

FZG LS 11/12 AFNOR – NFF

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