



# ***Lyden Oil Company***

## ***ProGuard***

### **Product Information**

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#### ***ProGuard AW Hydraulic Fluids***

***ProGuard AW Hydraulic Fluids*** are premium quality, anti-wear, hydraulic oils designed to provide maximum pump life and trouble-free service in industrial and mobile hydraulic systems. They possess excellent oxidation and thermal stability and proven protection against wear. Since these oils contain a zinc dithiophosphate (ZDDP) anti-wear agent, they should not be used in those specialized pumps having silver-faced bearing surfaces.

***ProGuard AW Hydraulic Fluids*** are recommended for use in vane, gear and piston pumps. These anti-wear hydraulic oils are very effective in reducing vane and gear pump wear in systems operating at high load and high speed.

***ProGuard AW Hydraulic Fluids*** are formulated to meet or exceed the requirements for industrial and mobile hydraulic systems which call for: \*Vickers I-286-S, M-2950-S \*Denison HF-1, HF-2, HF-0 \*Cincinnati Milacron P-68, P-69, P-70 \*CETOP RP91H \*U.S. Steel 136, 127 \*General Motors LH-04- 1, LH-06-1 \*DIN 51524 type HLP and \*Vickers 35VQ25.

***ProGuard AW Hydraulic Fluids*** satisfy the requirements of major hydraulic equipment manufacturers and are suitable for all types of hydraulic pumps except for the very small number of pumps containing silver plated parts which still require non-zinc oils.

#### **Benefits**

- Excellent wear protection
- Rapid release of any entrained air
- Oxidation and thermal stability for long life
- Excellent rust and corrosion protection
- Excellent low temperature performance

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#### ProGuard AW Hydraulic Fluids

#### Typical Characteristics

##### ProGuard

AW Hydraulic Fluids	32	46	68	100	150	220
Product Code Number	18004	18005	18006	18007	17948	17949
SAE Viscosity Grade	10W	20W	20W	30W	40W	50W
Appearance	Light Pale	Light Pale	Light Pale	Dark Pale	Dark Pale	Dark Pale
Flash Point, °F (°C), ASTM D-92	420 (216)	430 (221)	450 (232)	500 (260)	505 (262)	527 (275)
Pour Point, °F (°C), ASTM D-97	-20 (-28)	-20 (-28)	-20 (-28)	-10 (-23)	-5 (-20)	-5 (-20)
Viscosity, ASTM D-445/D-2161						
cSt. at 40° C	32	46	62.5	96.3	147	205
cSt. at 100° C	5.4	6.9	8.1	11.0	14.2	18.5
SUS at 100° F	165	227	330	500	734	950
SUS at 212° F	44	48	54	54	77	92.2
Viscosity Index, ASTM D-2270	100	98	96	96	100	100
Oxidation Life, hrs., ASTM D-943	>5500	>5500	>5500	>4000	>3000	>3000
Rust Test, ASTM D-665A	Pass	Pass	Pass	Pass	Pass	Pass

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