



# **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-2952-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 \*Eaton I-286-S3 \*ISO 6473/4 HM \*Racine Vane Pumps \*Bosch Rexroth 90220 \*Joy Mining.

**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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#### **Lyden Oil Company**

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#### ProGuard AW Hydraulic Fluids

#### Typical Characteristics

| <b>ProGuard<br/>AW Hydraulic Fluids</b> | <b>32</b>  | <b>46</b>  | <b>68</b>  | <b>100</b> | <b>150</b> | <b>220</b> |
|---|------------|------------|------------|------------|------------|------------|
| 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        | 99         | 97         | 96         | 96         | 95         |
| Oxidation Life, hrs., ASTM D-943        | >5500      | >5500      | >5500      | >5000      | >5000      | >4000      |
| Rust Test, ASTM D-665A                  | Pass       | Pass       | Pass       | Pass       | Pass       | Pass       |
| Corrosion, ASTM D-130                   | 1b         | 1b         | 1b         | 1b         | 1b         | 1b         |

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