



Paradene AW

Anti-wear Hydraulic Oil

Description

Castrol Paradene AW is a premium industrial anti-wear hydraulic oil line for hydraulically activated equipment that utilizes high performance pumps. They contain very effective anti-wear additives that allow them to meet or exceed industry vane, gear, and piston pump manufacturers' specifications. These fluids are highly dependable, peak efficiency oils, which meet the lubricant demands of precision industrial equipment.

Castrol Paradene AW will remain very stable and clean in today's machine tool equipment where increasingly sophisticated control systems are used.

Application

Castrol Paradene AW has been specially formulated to provide good anti-wear and thermal stability performance using proven additive technology. The careful blend of additives with a high quality base stock ensures that Paradene AW has excellent hydrolytic and oxidative stability while exhibiting a minimal tendency to produce sludge and deposits. In addition, Paradene AW provides corrosion protection to ferrous and yellow metal components found within a hydraulic system. This range is designed for use in industrial hydraulic systems which require antiwear protection such as lightly loaded gears, variable speed units and bearings. The Hyspin AWS range is compatible with the most commonly used nitrile, silicone and fluropolymer seal materials..

Paradene AW is classified as follows:

DIN 51502 classification - HLP

ISO 6743/4 - Hydraulic Oils Type HM

Paradene AW meet the requirements (for appropriate viscosity grade) of:

Parker Hannifin (Denison) HF0, HF1 & HF2

Eaton E-FDGN-TB002-E

Vickers 35VQ25A - meets performance requirements/Vickers M-2950-S Mobile Hydraulic Systems and I-286-S Industrial Hydraulic Systems

Fives Cincinnati P68, P69 & P70

Meets Racine S106 and Joy Mining Machinery HO-T (AW 46), HO-S (AW 68)

DIN 51524 Part 2

ASTM D6158 HM

ISO 11158 HM

US Steel 126

Advantages

- Effective anti-wear performance minimizes wear in industrial pump applications prolonging dependable equipment life.
- Special non-silicone anti-foam additive allows for rapid release of entrained air and dependable system response for consistent work yield.
- Careful selection of base stock coupled with optimum additives create maximum hydraulic component yield for long fluid life and equipment life savings.

Typical Characteristics

| Name | Method | Units | AW 22 | AW 32 | AW 46 | AW 68 | AW 100 | AW 150 | AW 220 | AW 320 |
|--------------------------------------|-----------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| ISO Viscosity Grade | - | - | 22 | 32 | 46 | 68 | 100 | 150 | 220 | 320 |
| Appearance | Visual | - | Clear & Bright | Clear & Bright | Clear & Bright | Clear & Bright | Clear & Bright | Clear & Bright | Clear & Bright | Clear & Bright |
| Specific Gravity @ 15.6°C / 60°F | ISO 3675 / ASTM D1298 | kg/m ³ | 859 | 861 | 877 | 884 | 890 | 891 | 895 | 902 |
| Kinematic Viscosity @ 40°C / 104°F | ISO 3104 / ASTM D445 | mm ² /s | 22 | 32.3 | 46.21 | 67 | 100.2 | 150.3 | 220 | 321 |
| Kinematic Viscosity @ 100°C / 212°F | ISO 3104 / ASTM D445 | mm ² /s | 4.3 | 5.6 | 6.93 | 8.75 | 11.42 | 18.19 | 19 | 24.8 |
| Viscosity Index | ISO 3104 / ASTM D445 | None | 102 | 112 | 106 | 104 | 100 | 104 | 97 | 120 |
| Kinematic Viscosity @ 37.8°C / 100°F | ASTM D2161 | SUS | 114 | 143 | 214 | 315 | 480 | 708 | 1019 | 1489 |
| Kinematic Viscosity @ 98.9°C / 210°F | ASTM D2161 | SUS | 40 | 44 | 47 | 55 | 62 | 73 | 96 | 120 |
| Pour Point | ISO 3016 / ASTM D97 | °C / °F | -32/-26 | -32/-26 | -27/-17 | -26/-15 | -15/-5 | -15/-5 | -10/14 | -10/14 |
| Flash Point - open cup method | ISO 2592 / ASTM D92 | °C / °F | 205 / 401 | 211 / 412 | 215 / 419 | 221 / 429 | 226 / 439 | 232 / 450 | 232 / 450 | 245 / 472 |
| API Gravity | ASTM D287 | °API | 33.5 | 32.9 | 30 | 28.8 | 27.5 | 27.3 | 26 | 25.5 |
| Pounds per Gallon | ASTM D287 | °API | 7.14 | 7.17 | 7.3 | 7.35 | 7.4 | 7.45 | 7.47 | 7.5 |

Subject to usual manufacturing tolerances.