

#LU400 - AW ISO 22  
 #LU401 - AW ISO 32  
 #LU402 - AW ISO 46  
 #LU403 - AW ISO 68  
 #LU404 - AW ISO 100  
 #LU405 - AW ISO 150

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# Hydraspec AW Hydraulic/Industrial Oils

## Tech Bulletin

### Product Description

**Hydraspec AW Hydraulic/Industrial Oils** are premium, heavy duty, antiwear hydraulic oils developed to meet the requirements of high output hydraulic systems. They are designed for use in high pressure or high speed vane and gear-type hydraulic pumps, rotary vane-type compressors, machine tools and circulating systems.

**Hydraspec AW Hydraulic/Industrial Oils** are characterized by outstanding rust protection, low deposit formation, good demulsibility, low air entrainment, excellent oxidation resistance, low pour points and good anti-foam properties. ISO grades 32, 46, and 68 meet the requirements of Cincinnati Machine CM specifications P-68, P-69, and P-70.

### Manufacturer Approvals

- Hagglunds-Denison HF-0, HF-1, HF-2
- Vickers M-2952-S
- Cincinnati Milacron P-68, P-69, P-70
- US Steel 127, 136
- Racine Vane Pumps-Variable Volume
- DIN 51524 Part 2

### Typical Characteristics Property

|                                  | ASTM   | LU400-<br>AW ISO 22 | LU401-<br>AW ISO 32 | LU402-<br>AW ISO 46 | LU403-<br>AW ISO 68 | LU404-<br>AW ISO 100 | LU405-<br>AW ISO 150 |
|----------------------------------|--------|---------------------|---------------------|---------------------|---------------------|----------------------|----------------------|
| Gravity, API                     | D-287  | 32.9                | 32.9                | 32.9                | 32.5                | 31.5                 | 30.0                 |
| Viscosity, SUS at 100°F          | D-2161 | 105.5               | 160                 | 230                 | 330                 | 500                  | 675                  |
| Viscosity, SUS at 210°F          | D-2161 | 40.4                | 44                  | 48                  | 54                  | 64                   | 74.8                 |
| Viscosity, cSt at 40°C           | D-445  | 21.8                | 33.3                | 46.2                | 62.5                | 96.3                 | 145.6                |
| Viscosity, cSt at 100°C          | D-445  | 4.3                 | 5.5                 | 6.7                 | 8.1                 | 11.0                 | 14.2                 |
| Viscosity Index                  | D-2270 | 100                 | 100                 | 98                  | 96                  | 96                   | 95                   |
| Oxidation Stability (Hrs)        | D-943  | 5000+               | 5000+               | 5000+               | 5000+               | 5000+                | 5000+                |
| Rust                             | D-665A | Pass                | Pass                | Pass                | Pass                | Pass                 | Pass                 |
| Flash, COC, °C (°F)              | D-92   | 210(410)            | 216(420)            | 221(430)            | 232(450)            | 260(500)             | 275(527)             |
| Pour, °C (°F)                    | D-97   | -30(-22)            | -29(-20)            | -29(-20)            | -29(-20)            | -23(-10)             | -15(5)               |
| Emulsion Stability at 130°F      | D-1401 | Pass                | Pass                | Pass                | Pass                | Pass                 | Pass                 |
| Corrosion                        | D-130  | 1b                  | 1b                  | 1b                  | 1b                  | 1b                   | 1b                   |
| Foam Tendency, 10 min air sparge | D-892  | None                | None                | None                | None                | None                 | None                 |
| Vickers 35VQ25, V104C            | --     | Pass                | Pass                | Pass                | Pass                | Pass                 | Pass                 |

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