

## **HYDRAULIC OILS**

### **PERFORMANCE AND APPLICATIONS**

**HYDRAULIC AW** from Catalys are premium quality hydraulic fluids, made from a paraffinic mineral base oil. They are suitable for the most severe-duty service. All viscosity grades contain a rust & oxidation inhibitor, an anti-foam and an anti-wear additive.

**Hydraulic AW** fluids are recommended for all fixed and mobile hydraulic system. They provide the necessary protection to any kind of pump operating at high speed. They are available in all common viscosity grades. The viscosity choice depends on the manufacturer recommendation or the application.

For hydraulic equipment subject to wide temperature variations, we recommend the type of oil "HVI" (High Viscosity Index) multigrade (see specifications Hydraulic HVI).

**Hydraulic AW** fluids meet or exceed the following specifications:

- Denison HF0/ HF1/ HF2/T5D/T6H20C (ISO 32, 46, 68)
- Eaton-Vickers 35VQ-25A for M-2950-S (Mobile) and I-286-S (Stationary) (ISO 32, 46, 68)
- Cincinnati Milacron P-68 (ISO 32), P-69 (ISO 68), P-70 (ISO 46),
- DIN 51524, Part 2 (ISO 32, 46, 68),
- General Motors LS-2 (ISO 32, 46, 68),
- U.S. Steel 126, 127 and 136 (ISO 32, 46, 68)
- and AFNOR E 48-603 (ISO 32, 46, 68).

**Hydraulic AW ISO 10 and 22** fluids are formulated to provide the lubrication of high speed spindles in machine tools where zinc-free oils are not a requirement.

### **MAIN PROPERTIES**

- Excellent oxidation stability, giving long life without formation of harmful sludge.
- Good demulsibility, enabling rapid separation of entrained water
- High viscosity index, to resist large changes in viscosity with variations in temperature.
- Fortified with anti-rust, anti-wear, anti-foam and oxidation inhibitors to impart optimum performance characteristics.
- Wide choice of viscosity ranging from ISO VG 10 to 100.

# TYPICAL CHARACTERISTICS OF HYDRAULIC FLUIDS

ISO Viscosity Grade	ASTM	10	22	32	46	68	100
Density @ 15°C, Kg/L	D1298	0,854	0,857	0,862	0,867	0,871	0,875
Pour Point, °C	D97	-45	-42	-39	-39	-36	-24
Flash Point, °C	D92	148	198	202	224	228	236
Viscosity: cSt (mm <sup>2</sup> /s) @ 40°C	D445	10,7	21,4	32,7	46,9	67,6	99,4
cSt (mm <sup>2</sup> /s) @ 100°C	D445	2,77	4,27	5,5	6,9	8,71	11,4
Viscosity Index	D2270	100	104	103	102	101	101
Oxidation Stability, Hours (T.O.S.T.)	D943	---	4000+	4000+	4000+	4000+	--
Color (max.)	D1500	1	1	1	1	1,5	1,5

## AVAILABLE PACKAGING

	20 L	205 L	BULK	TOTE
<b>HYDRAULIC AW 10</b>	07-1532-10	07-1532-05	07-1532-00	
<b>HYDRAULIC AW 22</b>	07-1530-10	07-1530-05	07-1530-00	07-1530-04
<b>HYDRAULIC AW 32</b>	07-1657-10	07-1657-05	07-1657-00	07-1557-04
<b>HYDRAULIC AW 46</b>	07-1658-10	07-1658-05	07-1658-00	07-1658-04
<b>HYDRAULIC AW 68</b>	07-1659-10	07-1659-05	07-1659-00	07-1659-04
<b>HYDRAULIC AW 100</b>	07-2778-10	07-2778-05	07-2778-00	07-2778-04