



## ULTRA PREMIUM COMMERCIAL AW HYDRAULIC OIL PREMIUM ANTI-WEAR HYDRAULIC OIL

### DESCRIPTION:

Ultra Premium Commercial AW Anti-wear Hydraulic Oil is a top quality low-zinc antiwear hydraulic oil designed for use in hydraulic systems ranging from simple to the latest in high technology and high performance.

The line of Ultra Premium AW oils is blended with high quality HCG-2 base oils having excellent stability and quality, balanced additive system that provides oxidation and thermal stability, antirust, demulsibility, antiwear, and antifoam characteristics. The zinc type antiwear agent used in these oils helps minimize wear in high speed, high pressure, vane and gear pumps while meeting the lubrication requirements of the axial piston pumps having bronze and steel metallurgy. Ultra Premium AW oils are highly stable under thermal or oxidative stress and are exceptionally stable when in the presence of moisture, showing little tendency to hydrolyze and attack copper.

### APPLICATION:

Ultra Premium Commercial AW Anti-Wear Hydraulic Oils are recommended for the most severe operating pressure applications and exceed the following manufacturers' performance levels:

- Abex Denison HF-1, HF-2, HF-0
- Cincinnati Milacron P-68, P-69, P-70
- Racine variable volume vane pumps
- Vickers I-286-S, M-2950-S (35VQ25)
- U.S. Steel 136, 127
- DIN 51524, Part 2
- ASTM D-943 Oxidation Test: Exceeds **6000** Hours
- ASTM D-665 Rust Test: Pass A&B

### FEATURES & BENEFITS:

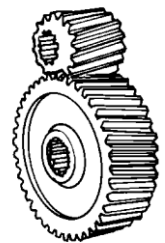
Excellent vane and piston pump performance with low copper activity, providing extended pump life.

Provides excellent oxidation and thermal stability for longer drain intervals.

Reduced maintenance due to outstanding rust prevention capabilities.

Superior hydrolytic stability with quick water separation providing good demulsibility and protection against filter plugging.

Special antifoam agent assures the proper functioning of the system.





**ULTRA PREMIUM COMMERCIAL ANTI-WEAR HYDRAULIC OIL**  
**Typical Properties**

ISO Viscosity Grade	<u>22</u>	<b>32</b>	<b>46</b>	<b>68</b>	<u>100</u>	<u>150</u>	<u>220</u>
Approximate SAE Grade	(5W)	<b>(10W)</b>	<b>(20W)</b>	<b>(20)</b>	(30)	(40)	(50)
Viscosity @ 100°C, cSt	4.35	<b>5.50</b>	<b>6.80</b>	<b>8.80</b>	11.1	14.6	18.7
SUS	40.0	<b>44.3</b>	<b>48.5</b>	<b>55.1</b>	63.2	76.4	93.0
@ 40°C, cSt	21.9	<b>31.9</b>	<b>46.1</b>	<b>67.5</b>	98.4	149	214
SUS	106	<b>150</b>	<b>215</b>	<b>313</b>	456	686	992
Viscosity Index	103	<b>105</b>	<b>100</b>	<b>100</b>	98	96	96
Pour Point, °F	-40	<b>-40</b>	<b>-25</b>	<b>-20</b>	- 10	10	10
API Gravity	32.5	<b>30.5</b>	<b>29.6</b>	<b>29.0</b>	28.5	28.3	28.0
Flash Point, °F	400	<b>420</b>	<b>440</b>	<b>460</b>	480	500	540

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

**HEALTH & SAFETY:**

A complete Material Safety Data Sheet is available upon request. Used oil contains by-products which may be harmful. Avoid prolonged or repeated skin contact. Wash clothing and exposed areas with soap and water. Don't pollute - return used oil to a collection center.