



Hicks Oils  
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# FORMULA 500

## PREMIUM HD ANTI-WEAR HYDRAULIC OILS

Formula 500® Premium HD AW Hydraulic Fluids are superior Group II anti-wear hydraulic and circulating fluids specially formulated with high quality base stocks and improved thermally stable zinc additives. These oils offer outstanding resistance to sludge formation, are chemically stable, and exhibit excellent anti-wear properties. HD AW Hydraulic Fluids also contain anti-foam agents to limit air entrainment in hydraulic systems, and demulsifiers to separate water from the oil in the sump.

Formula 500® Premium HD AW Hydraulic Fluids use Group II base oil. Group II base oils provide for longer oxidation life, and are more thermally stable than comparable viscosity grade group I base oils. These properties along with the quality zinc based anti-wear hydraulic additive package create a superior product when compared to typical hydraulic oil.

Formula 500® Premium HD AW Hydraulic Fluids are recommended for service in vane, piston, and gear pumps when used according to the manufacturers' recommendations. The oils provide maximum service life to these pumps as well as other system components.

HD AW Hydraulic fluids meet the following specifications:

Denison HF-0, 1, and 2  
Vickers M-2950-S, I-286-S  
Cincinnati Milacron P-68, 69, 70  
General Motors LS-2  
US Steel 126, 127, and 136

### Typical Properties:

Product: Premium HD Anti-Wear Hydraulic Oil			
Product Code	10003	10005	10006
ISO viscosity	32	46	68
Kinematic Viscosity @ 100 °C cSt (ASTM D-445)	5.4	6.8	8.7
Kinematic Viscosity @ 40 °C cSt (ASTM D-445)	32.0	46.0	68.0
Viscosity Index (ASTM D-2270)	100	100	100
API Gravity (ASTM D-1298)	27.0	26.1	27.5
Pour Point °C (ASTM D-97)	-24	-21	-15
Turbine Oxidation (ASTM D-943)	5000	5000	5000
RPVOT, min (ASTM D-2292)	300	300	300
Emulsion Separation, min (ASTM D-1401)	10	15	15
Zn (ppm)	410	410	410