



HICKS oils
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F O R M U L A



Multi-Viscosity (MV) Anti-Wear (AW) Hydraulic Oils

FORMULA 500® Multi-Viscosity Anti-Wear Hydraulic Oils are superior anti-wear hydraulic and circulating fluids specially formulated to provide maximum performance at a wide range of temperatures. These hydraulic oils offer outstanding resistance to sludge formation, are chemically and shear stable, and exhibit excellent anti-wear properties.

FORMULA 500® MV AW Hydraulic Oils 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® MV AW Hydraulic Oils are zinc-based hydraulic fluids which are recommended for service in vane, piston, and gear pumps when used according to the manufacturers' recommendations. These oils provide maximum service life to these pumps as well as other system components.

FORMULA 500® Multi-Viscosity Anti-Wear Hydraulic Oils meet the following specifications:

- Denison HF-0, 1, and 2
- Vickers M-2950-S, I-286-S
- Cincinnati Milacron P-68 and 70
- US Steel 126, 127, and 136
- DIN 51524, Parts 2 and 3

Typical Properties:

Product	FORMULA 500® Multi-Viscosity Anti-Wear Hydraulic Oils		
Product Code	90688	90721	90682
ISO Viscosity Grade	22	32	46
Kinematic Viscosity @ 100°C, cSt (ASTM D-45)	4.8	6.4	8.2
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	22.2	33.9	48.7
Viscosity Index (ASTM D-2270)	142	143	142
Pour Point, C° (F°) (ASTM D-6749)	-50, (-58)	-51,(-60)	-42, (-43)
Emulsion Separation, min (ASTM D-1401)	10	10	10
API Gravity (ASTM D-1298)	34.2	32.7	33.9
Zinc, ppm	282	282	282