



Arctic Low Pour Hydraulic Oil

Phillips 66® Arctic Low Pour Hydraulic Oil is a high-quality, low-viscosity anti-wear hydraulic oil specially developed for use in industrial and mobile equipment operating at extremely low temperatures. It has a very high viscosity index and low pour point for use in arctic conditions.

Arctic Low Pour Hydraulic Oil is formulated to provide outstanding low-temperature properties, good wear protection for hydraulic pumps and motors, resistance to deposit formation, and protection against rust and corrosion. It has good water-separating properties to minimize the formation of emulsions, and is resistant to excessive foam buildup that can cause poor or sluggish hydraulic system response.

Arctic Low Pour Hydraulic Oil may be used in land-based hydraulic systems where the equipment manufacturer specifies a MIL-H-5606 fluid. It is **not** recommended for aircraft use.

Applications

- Industrial and mobile equipment operating in cold climates
- Bucket trucks (cherry pickers) used for servicing electrical power lines or for tree-trimming
- Surface mining equipment

Features/Benefits

- Outstanding low-temperature properties
- Very high viscosity index for use in arctic conditions
- Good wear protection for hydraulic pumps and motors
- Resists deposit formation and viscosity increase due to oxidation
- Protects against rust and corrosion
- Good water-separating properties
- Good foam resistance
- High dielectric strength for use in electrical service bucket trucks (cherry pickers)⁽¹⁾

⁽¹⁾ **Note:** In order to maintain its high dielectric strength for use as electrical insulating oil, the oil must be kept clean and dry. Contamination with water will significantly decrease the dielectric strength.

Low-Pour, High VI Anti-wear Hydraulic Oil for Cold Climates





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Typical Properties	
ISO Grade	15
Specific Gravity @ 60°F	0.876
Density, lbs/gal @ 60°F	7.29
Color, ASTM D1500	0.5
Flash Point (COC), °C (°F)	103 (217)
Pour Point, °C (°F)	-62(-80)
Viscosity	
cP @ -40°C (Brookfield)	450
cSt @ -40°C (Calculated)	226
cSt @ 40°C	15.0
cSt @ 100°C	5.6
SUS @ 100°F	77.4
SUS @ 210°F	44.6
Viscosity Index	383
Acid Number, ASTM D974, mg KOH/g	0.50
Demulsibility, ASTM D1401, minutes to pass	30
Dielectric Strength, ASTM D877, kV ⁽²⁾	35
Foam Test, ASTM D892	Pass
Four-Ball Wear, ASTM D4172, Scar Diameter, mm	0.55
Rust Test, ASTM D665 A&B	Pass
Zinc, wt %	0.050

⁽²⁾Note: At the point of manufacture

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.