



Product Application Sheet

76 Arctic Low Pour Hydraulic Oil

LOW POUR ANTIWEAR HYDRAULIC OIL

76 Arctic Low Pour Hydraulic Oil is a premium quality antiwear hydraulic fluid designed for use in hydraulic systems subject to extremely low temperatures. It has an extremely high viscosity index that permits its use over a wide temperature range. An effective zinc dithiophosphate antiwear additive provides excellent wear protection, assuring long life for hydraulic pumps and motors. This product is recommended for use in all types of high pressure, high speed hydraulic pumps used in industrial, mobile, and marine hydraulic systems operating under arctic conditions.

TYPICAL APPLICATIONS

Hydraulic systems in mobile equipment operating in arctic environments, including:

- Backhoe loaders
- Bulldozers
- Dump trucks
- Electrical service equipment (cherry pickers)
- Lift trucks
- Road graders

Hydraulic systems in mobile equipment operating in deep freezers.

CAUTION: *Although 76 Arctic Low Pour Hydraulic Oil is formulated to have viscometric properties equivalent to a MIL-H-5606 type fluid, it is **not** a qualified MIL fluid. This product must **NOT** be used in aircraft hydraulic systems under any circumstances.*

OUTSTANDING FEATURES

- ◆ Extremely high viscosity index (400) for use over a wide temperature range
- ◆ Outstanding wear protection for critical system components
- ◆ Thermal stability minimizes sludge deposits and viscosity increase due to oxidation
- ◆ Excellent rust and corrosion protection
- ◆ Non-corrosive to bronze or brass
- ◆ Excellent water separating characteristics to minimize the formation of emulsions
- ◆ Good foam resistance
- ◆ Excellent low temperature properties for cold start-ups
- ◆ High dielectric strength for use in electrical service equipment (cherry pickers)⁽¹⁾

⁽¹⁾ **Note:** *The dielectric strength will decrease if the oil becomes contaminated with dirt or even a very small amount of water.*

DESCRIPTION

76 Arctic Low Pour Hydraulic Oil is a low zinc level antiwear fluid formulated with high quality low pour base oils and selected additives. It has an extremely high viscosity index that permits its use over a wide temperature range. It is inhibited to minimize deposits and viscosity increase due to oxidation at high temperatures, resulting in long service life. It also has excellent low temperature properties for cold start-ups of hydraulic systems.

76 Arctic Low Pour Hydraulic Oil has good oxidation resistance and provides excellent wear protection and protection against rust and corrosion. It has excellent water separating characteristics to minimize the formation of emulsions and is resistant to excessive foam buildup that can cause poor system response. These features assure proper lubrication and operation of hydraulic system components.

TYPICAL INSPECTION TESTS:

Grade, ISO	15
Product Code	46170
Density, g/cm ³ @ 15°C	0.874
Color, ASTM	L 1.0
Flash Point, COC, °C (°F)	106 (225)
Pour Point, °C (°F)	-69 (-92)
Viscosity	
cSt @ -40°C	400
cSt @ 40°C	14.0
cSt @ 100°C	5.4
SUS @ 100°F	76.1
SUS @ 210°F	44.2
Viscosity Index	400
Copper Corrosion, ASTM D130	1A
Demulsibility, ASTM D1401, minutes to pass	20
Dielectric Strength, ASTM D877, kv ^(a)	25+
Foam Test, ASTM D892	Pass
Rust Test, ASTM D665A & B	Pass
Zinc, wt %	0.05

^(a) At the point of manufacture.