



INDUSTRIAL
LUBRICANTS &
SERVICES LIMITED

Technical Data sheet

ILS HYTROL LT 15

An Extra Low Temperature Anti-wear Hydraulic Oil

Description

ILS HYTROL LT 15 hydraulic oil is a high quality, low viscosity, anti-wear hydraulic oil with a very high viscosity index designed for applications operating in very low temperatures.

ILS HYTROL LT 15 has been specially formulated to provide outstanding low temperature properties while at the same time provide anti-wear protection and corrosion resistance for hydraulic pumps and motors operating in extreme conditions. Excellent water separation and a low foaming tendency ensure a smooth hydraulic system response.

ILS HYTROL LT 15 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.

Typical Applications

- Industrial and mobile equipment operating in very cold climates
- Hydraulic systems operating in cold temp cool stores and freezers
- Elevated platforms requiring a low viscosity hydraulic oil (e.g. Cherrypickers)

Features and 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) In order to maintain good electrical resistance (High dielectric strength) the oil must be kept clean and dry

Typical Properties

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) At the point of manufacturing

Note: Data is typical and does not constitute a specification

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