

## Low Temp Semi-Syn

AW Hydraulic Oil

No. 307

ISO: 15

### DESCRIPTION:

**Low Temperature Semi-Syn Hydraulic Oil** is a premium quality, highly oxidation stable, anti-wear lubricant, blended from extremely high VI group III base oil, synthetic base oil and specially selected additives. This lubricant can be used in a wide variety of hydraulic applications operating in unusually cold conditions where an ISO 15 anti-wear hydraulic oil is specified.

### PERFORMANCE CHARACTERISTICS:

- **Seal compatibility**  
Compatible with all normal hydraulic component seal material. Will not dry out seals and O-rings, as with other low temp. hydraulic oils.
- **Oxidation resistant (6,000 hours in the ASTM-D943 Oxidation Test)**  
Oxidation inhibitors and premium quality base oils combine to form a product with outstanding resistance to oxidation and provide the maximum protection against varnish formation at both high and low temperatures. This feature will extend drain intervals.
- **Provides excellent anti-wear protection**  
Special anti-wear, extreme pressure and friction reducing additives provide the highest level of protection against wear and scuffing.
- **Friction reduction**  
Exclusive friction reducing additives provide reduced operating temperature and reduced horsepower requirements in comparison to other low temperature hydraulic oils.
- **Superior rust protection**  
Inhibitors protect both steel and yellow metal surfaces against rust and corrosion.
- **Demulsibility**  
Designed to separate rapidly from water.
- **High foam resistance**  
Foam inhibitors provide a high level of foam resistance to prevent pump starvation and damage.
- **High viscosity index**  
To insure viscosity stability at both standby and operating temperatures.
- **Superior filterability**

### SERVICE APPLICATIONS:

**Low Temp Semi-Syn AW Hydraulic Oil** is intended for use in mobile hydraulic systems operating in deep freezers and in mobile equipment operating in arctic conditions, such as:

Road Graders  
Backhoes  
Dump Trucks

Bulldozers  
Loaders  
Cranes

Lift trucks  
Cherry Pickers  
Haul Trucks

**TYPICAL SPECIFICATIONS:**

ISO Grade	Test Method	15
Viscosity @ 40° C, cSt:		16.7
Viscosity @ 100° C, cSt:		3.87
Viscosity Index:		137
Pour Point, °F:		-55
Color, Saybolt:		1.0
API Gravity:		34.2
Oxidation Stability, TOST, hr <sup>1</sup>	ASTM D-943	6,000+
Four Ball Wear Test 30 KG, 1 hour @ 167° F	ASTM 2266	Scar 0.50
Copper Corrosion,	ASTM D-130	1A
Foam Test, Available foam after 10 min.	ASTM D-892	Nil
Rust Test	ASTM D-665	A/B
Distilled Water		Pass-clean
Synthetic Sea Water		Pass-clean
Demulsibility Test	ASTM D-1401	Pass

Values shown here are typical, and may vary.

**PERFORMANCE PRODUCTS GUARANTEED**

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