Esso Imperial Oil

Product Data Sheet

ESSO HYDRAULIC OIL AW

ANTI-WEAR HYDRAULIC OILS

July 2003

Esso Hydraulic Oil AW provides the following quality and performance features:

- **Excellent anti-wear properties**
- **Excellent rust and corrosion protection**
- **Good thermal and hydrolytic stability**
- **Excellent filterability performance**
- **Good oxidation stability**
- **Excellent antifoam and air release characteristics**
- **Excellent water separation**
- **Meets major hydraulic pump manufacturers performance requirements**
- **Available in ISO 32,46 and 68 viscosity grades**

Primary Applications

Esso Hydraulic Oil AW products are anti-wear hydraulic oils formulated from high-quality base oils and carefully selected additives that have been designed to meet the performance requirements of major manufacturers

Esso Hydraulic Oil AW 32, 46 and 68 may be used in high and low pressure industrial and mobile hydraulic systems calling for:

- Denison HF-0, HF-1, HF-2
- Denison P-46, T6C
- Vickers I-286S, M-2950-S
- Vickers 35VQ25, V104C
- Cincinnati Machine P-68, P-69, P-70

The zinc dithiophosphate (ZDDP) additive system used in **Esso Hydraulic Oil AW** provides excellent wear protection for vane, piston and gear pumps used in hydraulic power transmission systems operating at high loads, speeds, and temperatures.

Esso Hydraulic Oil AW has good Cincinnati Machine thermal stability and provides a hydrolytically stable technology with excellent filterability characteristics, even with ingress of moisture into the hydraulic fluid.

Precautions

Esso Hydraulic Oil AW is manufactured from high quality petroleum base stocks, carefully blended with selected additives. As with all petroleum products, good personal hygiene and careful handling should always be practiced. Avoid prolonged contact to skin, splashing into the eyes, ingestion or vapour inhalation. Please refer to our ESSO Material Safety Data Sheet for further information.

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Note: This product is not controlled under Canadian WHMIS legislation.

Typical properties

Hydraulic Oil AW Grades	**32**	**46**	**68**
Density			
kg/m^3	**870**	**873**	**876**
Viscosity			
cSt @ 40 °C	**32.9**	**46.2**	**68.8**
cSt @l00 °C	**5.5**	**6.8**	**8.7**
Viscosity Index	**102**	**100**	**97**
Pour Point, °C	**-33**	**-30**	**-30**
Flash Point, °C	**206**	**218**	**222**
Color, ASTM	**1.0**	**1.0**	**1.5**
Cincinnati Machine Spec:	**P68 Pass**	**P70 Pass**	**P69 Pass**
Oxidation Stability **Turbine Oil Stability Test, life, hours**	**2500+**	**2500+**	**2500+**

The values shown here are representative of current production. Some are controlled by manufacturing specifications, while others are not. All may vary within modest ranges.

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