

## **PURUS® ZINC FREE MV AW HYDRAULIC OILS**

**Manufactured with highly refined base oils**

**DESCRIPTION:** PURUS® Zinc Free MV AW Hydraulic Oils are designed to give long service in high-output hydraulic systems. These zinc free hydraulic oils are blended using the latest anti-wear additive technology along with very high shear stable VI improver. PURUS® Zinc Free MV AW Hydraulic Oils have a high viscosity index, low pour point for a wider temperature range and provide excellent wear protection, thermal stability and oxidation.

**APPLICATIONS:** PURUS® Zinc Free MV AW Hydraulic Oils are recommended for use in all applications calling for anti-wear hydraulic oil and meet or exceed the current and former specifications: Fives Cincinnati P-68, P-69, P-70 (obsolete), Parker (formerly Denison) HF-0, HF-1, and HF-2, Eaton E-FDGN-TB002-E, Bosch Rexroth RDE 90220 (obsolete) and 90235, DIN 51524-III (HV), ASTM D6158 (HV), ISO 11158 (HV), AIST 126, 127, SAE MS 1004 (HV), GM LS2, and SEB 181222. Inherently Biodegradable and non-toxic to aquatic organisms.

Suitable for use in applications which cite former or obsolete specifications such as Fives Cincinnati P-68, P-69, P-70 and Bosch Rexroth RDE 90220.

- Excellent water separation (demulsibility) that facilitates water removal
- Zinc Free wear protection to reduce negative impact of unavoidable water condensation in machinery after shutdown
- Reduce oils consumption and improve equipment protection through outstanding shear and oxidation stability
- Excellent filterability minimized the tendency to cause filter blockage
- Fast air release and antifoam properties minimize pump cavitation in systems with high circulation rates
- Very low viscosity variation and quick start ups thanks to the latest polymer technology that provides excellent low-temp performance and maintains precision of machinery when hot, cold, or under high loads. The VI improver used in these hydraulic oils is highly resistant to mechanical stress, and the “stay in grade” characteristics ensure effective lubrication and long oil life.

Revised: 05/2019

PINZFMVAWHYD pg 1

## PURUS® ZINC FREE MV AW HYDRAULIC OILS

Manufactured with highly refined base oils

### TYPICAL PROPERTIES\*:

ISO Viscosity Grade		32	46	68
Pour Point °C	D5950	-39	-39	-36
Flash Point °F (°C)	D92	421 (216)	444 (229)	466 (241)
Color	D1500	L0.5	L0.5	L1.0
Viscosity				
@ 40 °C, cSt	D445	32.53	46.85	69.04
@100 °C, cSt	D445	6.39	8.39	10.84
Total Acid Number, mg KOH/g	D664	0.2	0.2	0.2
Viscosity Index	D2770	153	156	150
Gravity, °API	D1250	33.2	32.5	30.8
Dielectric KV	D877	35+**	35+**	35+**
Oxidation Life typical values, hours to TAN-2.0, min	D943	>10,000	>10,000	>10,000
Water Separability	D1401	40-37-3 (12'15")	40-37-3 (4'19")	40-37-3 (7'54")
Foam characteristics	D892	Pass	Pass	Pass

\*\*Dielectric strength will decrease if the oil becomes contaminated with dirt or even a very small amount of water

\*Due to continual product research and development, the information contained herein is based on products purchased in the U.S. and subject to change without notification. Typical properties may vary slightly.



This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either AIOD or its affiliates for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult your local AIOD Distributor if you require any further information.

Revised: 05/2019  
PINZFMVAWHYD pg 2