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ADVANTAGE AW PLUS SERIES HYDRAULIC OILS

OVERVIEW

ADVANTAGE AW PLUS SERIES HYDRAULIC OILS are highly refined, premium quality, anti-wear hydraulic oils recommended for use in a wide range of applications. Designed for use in piston, gear pumps, and vane pumps used in industrial and mobile hydraulic systems, ADVANTAGE AW PLUS SERIES HYDRAULIC OILS provide exceptional wear protection for pumps, motors, and other hydraulic system components. All grades have very good oxidation resistance, rust and corrosion protection and foam resistance to provide long service with minimal upkeep.

FEATURES & BENEFITS

ADVANTAGE AW PLUS SERIES HYDRAULIC OILS utilize highly refined base stocks for long service life, robust anti-wear technology for exceptional protection and resistance to oxidation, rust, corrosion, and foaming and offer superior component protection and smooth power transmission. ADVANTAGE AW PLUS SERIES HYDRAULIC OILS also offer a high dielectric strength for applications requiring an electrical insulating fluid.*

APPLICATIONS

ADVANTAGE AW PLUS SERIES HYDRAULIC OILS are designed for a variety of applications including hydraulic systems, mining equipment, and moderately loaded gear sets, as well as for general purpose lubrication.

SPECIFICATIONS

AFNOR NF E 48-603 (HM) , NF E 48-690, NF E 48-691 • AIST 126 (US Steel) • AIST 127 (US Steel) • ANSI/AGMA 9005-E02-RO • ASLE 64-1 to 64-4, 70-1 to 70-3 • ASTM D6158 • Bosch Rexroth 90220 Type HLP • CETOP RP91H • Cincinnati Machine P-68, P-69 & P-70 • DIN 51524-2 HLP • Eaton I-286-S3 (Industrial Equipment) • Eaton M-2950-S (35VQ25 Pump Test) • GM LS-2 • ISO 11158 HM • ISO 20763 Conestoga Vane pump Test • JCMAS P041 HK Hydraulic Specification • Parker (Denison) HF-0, HF-1 & HF-2 (T6H20C Pump Testing) • SAE MS1004 • SEB 181222

**Dielectric strength measurement given at point of manufacture. Dielectric strength deteriorates rapidly with contamination from particulates and moisture; oil must be kept clean and dry at all times.*

TYPICAL PROPERTIES

Product Code	**420**	**475**	**433**	**434**	**438**	**449**	**480**	**485**
Product	AW 10	AW 22	AW 32	AW 46	AW 68	AW 100	AW 150	AW 220
Viscosity, cSt @ 40 °C	10	22	32	46	68	100	150	220
Viscosity, cSt @ 100 °C	2.7	4.1	5.4	6.9	8.9	11.4	14.6	18.3
Viscosity Index	105	102	100	100	100	98	96	95
Flash Point, COC, °F, min	400	400	405	410	453	465	470	470
Pour Point, °C, max	-45	-40	-38	-37	-34	-32	-15	-5
Zinc, wt.%	.043	.043	.043	.043	.043	.043	.043	.043
Oxidation Stability	5000+	5000+	5000+	5000+	5000+	4000+	3000+	3000+
Demulsibility	20	20	20	20	20	20	20	20
Copper Corrosion	1b	1b	1b	1b	1b	1b	1b	1b
Rust Test	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
FZG Pass, Load Test	10	10	10	10	10	10	10	10
Color, max	1.5	1.5	1.5	1.5	1.5	2.5	2.5	3.0