

## 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 part II & part III • Eaton I-286-S3 (Industrial equipment) • Eaton M-2950-S (35VQ25 pump test) • GMLS-2 • ISO 11158 categories HH, HL, HM, HR and HV • 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 CODES	433	434	438
ISO Grade	AW32	AW46	AW68
Viscosity, cSt/40°C	32.0	46.0	68.0
Viscosity, cSt/100°C	5.4	6.9	8.9
Viscosity Index	102	105	104
Oxidation Stability	5000+	5000+	5000+
Flash Point, COC °F	420	425	453
Pour Point, °C	-425	-39	-36
Demulsibility	20	20	20
Zinc, % wt	.045	.045	.045