

## ADVANTAGE ASHLESS AW HVI HYDRALUIC FLUIDS

### OVERVIEW

**ADVANTAGE ASHLESS AW HVI HYDRALUIC FLUIDS** are high viscosity index (HVI), highly refined, ashless, anti-wear hydraulic oils developed for mobile equipment operating over a wide range of temperatures. **ADVANTAGE ASHLESS AW HVI HYDRALUIC FLUIDS** are ashless or zinc-free and have excellent thermal stability, low temperature properties and a lower pour point than conventional antiwear hydraulic oils. These zinc-free oils are inherently biodegradable and designed for use in most major hydraulic pump manufacturers as well as off road mobile construction equipment. The additive system in these oils is meets the requirements of pump manufacturers and machine tool builders and their hydraulic-specific viscosity index improver allows them to be used as an all seasons fluid or in environments in which temperatures vary greatly.

### FEATURES & BENEFITS

**ADVANTAGE ASHLESS AW HVI HYDRALUIC FLUIDS** oils are characterized by outstanding performance in preventing rust, oxidation, foaming, air entrainment and many other factors that occur in hydraulic systems. These fluids are zinc-free, nontoxic, inherently biodegradable, and have excellent low-temperature properties. They are recommended for applications where the use of oils containing toxic heavy metals is restricted because of soil or water contamination.

### APPLICATIONS

**ADVANTAGE ASHLESS AW HVI HYDRALUIC FLUIDS** are designed primarily for use in hydraulic systems located near areas such as national parks, wildlife refuges and ski resorts, where fluctuations in temperatures and proximity to environmentally sensitivity areas require a superior fluid.

### SPECIFICATIONS

**Hitachi Advanced Hydraulic Oil • DIN 51524 Part 3, Antiwear Hydraulic Oils (Type HVLP) • AFNOR NFE 48-603 (Type HV) • ISO 11158:1997 (Type HV) • Poclairn • Hitachi • Cincinnati Lamb • Eaton-Vickers I-286, M-2950-S, 35VQ25A • Parker-Hannifin (Denison) HF-0, HF-1, HF-2 • Bosch Rexroth RE 90220**

### TYPICAL PROPERTIES

Product Code	497	498	492
Viscosity, cSt @ 40 °C	32	46	68
Viscosity, cSt @ 100 °C	6.2	7.5	8.9
Viscosity Index, min.	140	140	170
Flash Point, °F	425	446	475
Pour Point, °C	-50	-45	-35
Demulsibility	15	15	15
Oxidation Stability	5000	5000	5000
Rust Test	Pass	Pass	Pass
Color	0.5	0.5	1.5
Gravity, ° API	31.5	30.0	28.5
Biodegradability in 28 days, OECD 301-B%	22	22	22