PRODUCT INFORMATION SHEET

CITGO[®] HyDurance[®] AW/AL HVI 100 Fluid



OVERVIEW A superior anti-wear and anti-leak, high viscosity index hydraulic and circulating oil formulated to ٠ provide outstanding performance under wide temperature ranges. Chemically stable with excellent resistance to sludge formation. Exhibits premium protection and filterability. **FEATURES &** Formulated with high-quality base stocks and premium additive components. • **BENEFITS** Contains a seal-conditioning agent to prevent and minimize minor leaks, and help provide longer seal life. Excellent low-temperature performance and fluidity over a wide temperature change. Thermal stability for superior resistance to heat-related sludging in sensitive electro-hydraulic servos. Good hydrolytic stability means they will not contribute to the formation of metal-etching acids or corrosive reactants. Inhibited against rusting in both fresh and sea water, passing both A and B Procedures of the ASTM D665 Rust Test. Excellent anti-wear protection to pumps, motors, valves, and other hydraulic circuit components. Approved against stringent equipment performance requirements. Resistant to foaming and will not foster abnormal air entrainment in properly designed hydraulic circuits. Superior demulsibility to readily separate water, permitting draining of contaminating water from circulating systems. Premium performance in wet and dry filterability testing. Seal conditioner for longer seal life. **APPLICATIONS** Recommended for service in industrial and mobile hydraulic systems when used in accordance with equipment manufacturers' recommendations. Designed to provide enhanced service life to vane, piston, and gear pumps as well as other circuit components such as motors and servos. Recommended for use as a gear and bearing lubricant in industrial applications where rust- and oxidation-inhibited oils are required.

CITGO Petroleum Corporation Houston, Texas Customer Service Line 1-800-331-4068 LubesCS@CITGO.com Product Answer Line 1-800-248-4684 lubeshelp@CITGO.com

Online at www.CITGOLubes.com

Manufactured in USA

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CITGO LUBRICANTS

APPLICATIONS

- Excellent low-temperature pumpability; recommended for use in mobile and other hydraulic equipment ٠ in heavy duty all-weather service.
- Recommended for equipment requiring the following specifications: . Parker Denison HF-0 Eaton Brochure 03-401-2010
 - DIELECTRIC STRENGTH RATED
 - WIDE TEMPERATURE PERFORMANCE
 - SEAL CONDITIONER

PROPERTIES

Typical Properties for CITGO HyDurance AW/AL HVI 100 Fluid:

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Grade	HVI 100
Material Code	633625001
Gravity, ASTM D4052, °API	30.5
Density, lb/gal	7.27
Flash Point, ASTM D92, COC, °C (°F)	258 (496)
Viscosity ASTM D2893	
cP at -23°C	19,700
Viscosity ASTM D445	
cSt at 40°C	103.3
cSt at 100°C	14.3
Viscosity Index ASTM D2270	142
Four Ball Wear, mm, ASTM D2266	
20 kg load	0.30
40 kg load	0.46
Pour Point ASTM D97, °C (°F)	-33 (-27)
Water Separability, ASTM D1401 ⁽¹⁾	40-40-0
Rust Test, ASTM D665 A, B ⁽²⁾	Pass
Dielectric Strength, KV ASTM D877 ⁽³⁾	35
Cold Cranking Simulator, ASTM D5293, cP at -30°C	2680

Notes: (1) 30 minutes max. separation time to ≤3 mL emulsion. Test temperature is 180°F.

(2) Pass - No Rust.

(3) Minimum dielectric strength is 28 KV when packaged by CITGO Petroleum. Dielectric strength is sensitive to humidity and contamination; opened containers may exhibit lower values. Store sealed containers properly in dry environment.

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