

CITGO HYDURANCE® AW/AL HVI 100 FLUID



Date 03/16

DESCRIPTION: CITGO HyDurance AW/AL HVI 100 Fluid is a superior anti-wear and anti-leak, high viscosity index hydraulic and circulating oil specially formulated to provide outstanding performance under wide temperature ranges. It has excellent resistance to sludge formation, is chemically stable, and exhibits premium protection and filterability.

QUALITIES: CITGO HyDurance AW/AL HVI 100 Fluid is formulated with high quality base stocks and premium additive components to offer trouble-free service in high-pressure, high-output hydraulic circuits operating under wide temperature conditions. It contains a seal conditioning agent to help prevent and minimize minor leaks and helps provide longer seal life.

CITGO HyDurance AW/AL HVI 100 Fluid offers:

Low Temperature Performance: Excellent fluidity over a wide temperature change.

Thermal Stability: Superior resistance to heat-related sludging in sensitive electro-hydraulic servos.

Hydrolytic stability: Will not contribute to the formation of metal-etching acids or corrosive reactants.

Rust and Corrosion Protection: Inhibited against rusting in both fresh and sea water and pass both A and B Sequences of the ASTM D 665 Turbine Oil Rust Test.

Wear Protection: Excellent antiwear protection to pumps, motors, valves and other hydraulic circuit components. Approved against stringent equipment performance requirements.

Anti Foam Performance: Resistant to foaming and will not foster abnormal air entrainment in properly designed hydraulic circuits.

Demulsibility: Readily separates water, permitting draining of contaminating water from circulating systems.

Excellent filterability: Premium performance in wet and dry filterability testing.

Seal conditioner for longer seal life.

APPLICATIONS: CITGO HyDurance AW/AL HVI 100 Fluid is recommended for service in industrial and mobile hydraulic systems when used in accordance with equipment manufacturers' recommendations. CITGO HyDurance AW/AL HVI 100 offers excellent low temperature pumpability and is recommended for use in mobile and other hydraulic equipment in heavy duty all weather service. It is designed to provide enhanced service life to vane, piston and gear pumps as well as other circuit components such as motors and servos.

CITGO HyDurance AW/AL HVI 100 Fluid is also recommended for use as a gear and bearing lubricant in industrial applications where rust and oxidation inhibited oils are required.

CITGO HyDurance AW/AL HVI 100 Fluid meets or exceeds

- Parker Denison HF-0 (Revision J)
- Eaton Brochure 03-401-2010

- DIELECTRIC STRENGTH RATED
- WIDE TEMPERATURE PERFORMANCE
- SEAL CONDITIONER

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TYPICAL PROPERTIES:

CITGO HYDURANCE® AW/AL HVI 100 FLUID

Grade	HVI 100
Material Code	633625001
Gravity, ASTM D 4052, °API	30.5
Density, lb/gal	7.27
Flash Point, ASTM D 92, COC, °C (°F)	258 (496)
Viscosity	
cP at -23°C ⁽¹⁾	19,700
cSt at 40°C	103.3
cSt at 100°C	14.3
Viscosity Index	142
Four Ball Wear, mm, ASTM D 2266	
20 kg load	0.30
40 kg load	0.46
Pour Point, ASTM D 97, °C (°F)	-33 (-27)
Water Separability, ASTM D 1401 ⁽²⁾	40-40-0
Rust Test, ASTM D 665 A, B ⁽³⁾	Pass
Dielectric Strength, KV ASTM D 877 ⁽⁴⁾	35

Notes: (1) ASTM D 2893 Brookfield Viscosity.

(2) 30 minutes max. separation time to ≤3 mL emulsion. Test temperature is 180°F.

(3) Pass - No Rust.

(4) 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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Values shown are typical values only and do not constitute a specification. The information contained herein is subject to change without notice.