

CITGO HYDURANCE™ AW
SYNTHETIC FLUIDS



Date 06/15

DESCRIPTION: CITGO HyDurance AW Synthetic Fluids are premium ashless hydraulic fluids formulated with the highest quality synthetic base stocks and additives. These fluids offer outstanding chemical stability, anti-wear protection and resistance to sludge formation.

QUALITIES: CITGO HyDurance AW Synthetic Fluids offer excellent low and high temperature performance providing a higher margin of equipment protection, beyond the capabilities of comparable mineral oils. The combination of synthetic base stocks and ashless additive package provide a product with exceptional oxidation stability allowing for extended drain and filter change intervals. High resistance to sludge formation helps assure clean and trouble free operation.

- Excellent thermal and oxidative stability reducing system deposits resulting in longer fluid life.
- High viscosity index and low pour point allows for operation over a wide temperature range without viscosity loss problems typical of mineral multigrade oils.
- Excellent corrosion protection.
- Exceptional demulsibility allows for the separation of large amounts of water from the system.
- Exceptional anti-wear properties



CITGO HyDurance™ AW 46
Synthetic Fluid

APPLICATIONS: CITGO HyDurance AW Synthetic Fluids are designed for use in vane, piston and gear pumps typically found in hydraulic and circulating systems. These fluids are designed to provide the excellent service life to pumps, servos and motors.

CITGO HyDurance AW Synthetic Fluids meet or exceed the following manufacturer specifications:

- Eaton Brochure 03-401-2010(formerly Vickers I-286-S, M-2950-S)
- Parker Denison HF-0, HF-1, HF-2
- Fives Cincinnati P-70 (ISO 46), P-69 (ISO 68)
- U.S. Steel 127, 136

• FULLY SYNTHETIC
• EXTREME TEMPERATURE PERFORMANCE

(Continued)

CITGO HYDURANCE™ AW
SYNTHETIC FLUIDS



Date 06/15 - (Continued)

TYPICAL PROPERTIES:

CITGO HYDURANCE™ AW SYNTHETIC FLUIDS

Grade	46	68
Material Code	633602001	633603001
Specific Gravity, 60/60°F	0.8498	0.8540
Density, lb/gal	7.08	7.11
Viscosity, ASTM D 445, cSt at 40°C	43.4	67.0
cSt at 100°C	7.29	10.08
Viscosity Index, ASTM D 2270	131	135
Flash Point, ASTM D 92, °C (°F)	266 (510)	268 (514)
Pour Point, ASTM D 97, °C (°F)	-60 (-76)	-57 (-70)
Color, ASTM D 1500	1.0	1.0
Brookfield Viscosity cP at -18°C	1500	2865
cP at -26°C	3340	—
Water Separation, ASTM D 1401, at 130°F (54°C)	40/40/0 (5)	40/40/0 (5)
Four Ball Wear, ASTM D 4172, 40kg, mm	0.60	0.58
Copper Corrosion, ASTM D 130	1B	1B
Rust Protection, ASTM D 665		
DI Water	Pass	Pass
Sea Water	Pass	Pass
Foam Sequence, ASTM D 892, I, II, III	Pass	Pass

CITGO is a registered trademark and HyDurance is a trademark of CITGO Petroleum Corporation. All other registered trademarks or trademarks are the property of their respective owners.