# CITGO HYDURANCE® AW SUPER NZ FLUID



Date 06/15

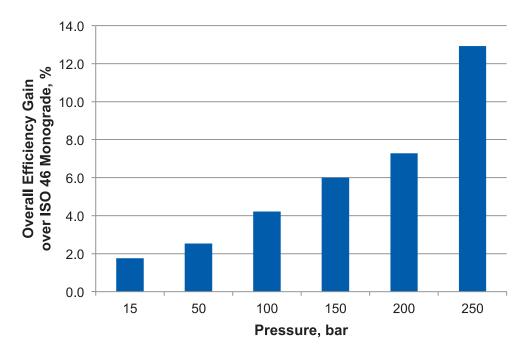
## **DESCRIPTION:**

CITGO HyDurance AW Super NZ Fluid is a high efficiency, wide temperature use range hydraulic fluid. It is formulated with premium base stocks and ashless additives to provide long fluid life and outstanding protection for demanding mobile equipment hydraulic systems. CITGO HyDurance AW Super NZ Fluid is zinc free. Zinc compounds are regulated as priority pollutants under provisions of the Clean Water Act and SARA Title 313. Multigrade performance offers ISO 68 viscosity characteristics at high operating temperatures and ISO 32 viscosity characteristics at low operating temperatures.

## **QUALITIES:**

CITGO HyDurance AW Super NZ Fluid offers:

- · Increased pump efficiency leading to improved productivity
- Zinc free and non-toxic in acute aquatic toxicity test (LC-50) per OECD TG 203 limit test for less environmental impact
- Multigrade performance for wide application temperature range
- Excellent shear and thermal stability provides extended fluid service life capability.
- · Separates readily from water to allow draining of water from systems
- Premium rust and corrosion protection for harsh environments
- · Excellent foam control for dependable performance
- Provides outstanding antiwear protection to pumps, motors and other hydraulic circuit components
- Recommended for use in Hitachi excavators with 4,000 hour service intervals.



**Denison T6CM Test at Various Pressures** 

(Continued)

# CITGO

# CITGO HYDURANCE® AW SUPER NZ FLUID

Date 06/15 - (Continued)

# **APPLICATIONS:**

CITGO HyDurance AW Super NZ Fluid is designed for increased hydraulic efficiency while providing excellent service life in vane, piston, and gear pumps when used in accordance with equipment manufacturer recommendations.

CITGO HyDurance AW Super NZ Fluid is highly recommended for high pressure mobile equipment hydraulic systems operating in wide temperature applications such as mining, construction and logging operations.

CITGO HyDurance AW Super NZ Fluid meets performance requirements of:

GM LS-2

Eaton Brochure 694 (formerly Vickers I-286-S and M-2950-S) DIN 51524 PART 3 U.S. Steel 127, 136, 126 Cincinnati Machine P-68, P-69, P-70 Parker Hannifin France (Denison) HF-0

# **TYPICAL PROPERTIES:**

Hitachi Excavators

# CITGO HYDURANCE® AW SUPER NZ FLUID

Material Code	633618001
Gravity, ASTM D 4052, °API Density, lb/gal	31.5 7.23
Flash Point, PM, ASTM D 93, °F (°C)	385 (196)
Viscosity, ASTM D 445, cSt at 40°C	53.0
cSt at 100°C	9.9
Viscosity Index, ASTM D 2270	177
Brookfield Viscosity, ASTM D2983, cP	
@-30°C	7,998
@-40C	36,392
Pour Point, ASTM D 97, °F (°C)	-49 (-45)
Color	Blue
Copper Corrosion, ASTM D 130, 3h at 100°C	1A
Rust Test, ASTM D 665 A, B	Pass
Four Ball Wear, ASTM D 4172, at 40 kg, mm	0.50
Foam Test, ml, ASTM D 892	
Sequence I	10-0
Sequence II	25-0
Sequence III	0-0
Water Separability @ 130F, ASTM D 1401	40-40-0
Acute aquatic toxicity (LC-50) per OECD TG 203	Pass
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**Notes:** Contamination with other fluids can affect environmental benefits and system performance. Contamination with zinc containing and/or emulsifiable fluids may cause foaming, premature filter saturation, and a decrease in water separability. Refer to equipment owner's manual for proper lubricant selection.

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