



## CITGO HYDURANCE® AW MINING FLUID

Date 07/14

- DESCRIPTION:** CITGO HyDurance AW Mining Fluid is a superior anti-wear hydraulic and circulating fluid specially formulated with thermally stable additives. Offers outstanding resistance to sludge formation, is chemically stable, and exhibits excellent anti-wear protection.
- QUALITIES:** CITGO HyDurance AW Mining Fluid offers trouble-free service in high-pressure, high-output hydraulic systems commonly used in off road, construction, and mining operations.
- Contains a blue dye for improved sight gauge visibility and leak detection assistance.
- Utilizes highly thermally stable additives, virtually eliminating heat-related sludge formation in severe operation applications.
- Inhibited against rusting in both fresh and sea water and passes both A and B Sequences of the ASTM D 665 Turbine Oil Rust Test.
- Offers excellent anti-wear protection to pumps, motors, valves and other hydraulic circuit components. Approved against stringent performance requirements including Cincinnati Machines P-68, P-69 and P-70, Parker Hannifin (Denison) HF-O, and Eaton Brochure 03-401-2010 (formerly M-2950-S, I-286-S).
- Resists foaming and will not foster abnormal air entrainment.
- Readily separates water permitting contaminating water to be drained from hydraulic sumps.
- APPLICATIONS:** CITGO HyDurance AW Mining Fluid is recommended for vane, piston, and gear pumps operating in off road, construction, and mining hydraulic system service when used in accordance with equipment manufacturer recommendations.

**TYPICAL PROPERTIES:****CITGO HYDURANCE® AW MINING FLUID**

<b>ISO Grade</b>	<b>46</b>
Material Code	633495001
Gravity, ASTM D 4052, °API	31.2
Density, lb/gal	7.24
Flash Point, COC, ASTM D 92, °F (°C)	446 (230)
Viscosity, ASTM D 445	
cSt at 40°C	46.6
cSt at 100°C	6.96
Viscosity Index	106
Pour Point, ASTM D 97, °F (°C)	-22 (-30)
Color, Visual	Blue
Water Separability, ASTM D 1401	40-40-0
Oxidation Test, ASTM D 943, Hrs.	>2500
Rust Test, ASTM D 665 A, B	Pass
Meets Eaton Brochure 03-401-2010 Requirements	Yes
Meets Parker Hannifin (Denison) HF-O Requirements	Yes
Meets Cincinnati Machines Requirements	P-70
AFNOR NF E 48-603	HM46