



CLARION® GREEN A/W OILS

Date 09/15

DESCRIPTION: Clarion Green A/W Oils are high-performance, ashless, zinc free, anti-wear hydraulic oils, designed for use in the pumps and gears of high-pressure hydraulic equipment operating in environmentally sensitive areas.

QUALITIES: Clarion Green A/W Oils are inherently biodegradable and will pass the U.S. Coast Guard static sheen test requirements. They are non-toxic to aquatic life, exceeding U.S. EPA LC₅₀ test requirements for mysid shrimp, rainbow trout and fathead minnow.

Clarion Green A/W Oils have excellent thermal and oxidative stability, and are compatible with other premium mineral oil-based lubricants.

These oils are formulated with a state-of-the-art, ashless additive package that provides excellent wear protection for pump components, excellent rust and corrosion protection, hydrolytic stability and longer service life. Meets or exceeds ANSI/AGMA 9005-E02 requirements for antiscuff/antiwear (EP) oils. They are easily recycled.

APPLICATIONS: Clarion Green A/W Oils are recommended for high-pressure, high-temperature, vane, piston and gear-type hydraulic pumps operating in environmentally sensitive areas such as hydraulic lifts and cranes on off shore drilling and production platforms.

They are used in scalpers, excavators and wheel loaders in the forestry industry and in dredges, kelp-cutters and pile drivers in the marine industry.

TYPICAL PROPERTIES:

CLARION® GREEN A/W OILS

ISO VIS Grade	32	46	68
Material Code	633551009	633552009	633553009
Gravity, ASTM D 4052, °API	32.5	32.3	31.6
Flash Point, COC, ASTM D 92, °F	400	402	468
Viscosity,			
ASTM D 445, cSt at 100°C	5.6	7.2	9.3
ASTM D 445, cSt at 40°C	33.1	46.7	64.2
Viscosity Index, ASTM D 2270	106	104	102
Pour Point, ASTM D 97, °F (°C)	0 (-18)	3 (-16)	15 (-9)
Water Separation Time, ASTM D 1401 minutes at 130°F	40-40-0(5)	40-40-0(5)	40-40-0(5)
Four Ball EP Wear, mm			
ASTM D 4172-A (20kg)	0.46	0.43	0.42
ASTM D 4172-B (40kg)	0.56	0.55	0.55
Rust Prevention, ASTM D 665 A/B	Pass	Pass	Pass
Copper Corrosion, ASTM D 130 3 hrs. at 100°C	1A	1A	1A
FZG Scuffing Load Capacity			
ASTM D 5182	11	11	>12
Oxidation Stability, ASTM D 943, hrs	>8,000	>8,000	>8,000

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