



## CLARION® GREEN A/W OILS

Date 06/13

**DESCRIPTION:** Clarion Green A/W Oils are high-performance, 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 LC<sub>50</sub> 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, ensures optimum rust and corrosion protection, hydrolytic stability and longer service life. Meets or exceeds ANSI/AGMA 9005-E02 requirements for antiscaff/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