

### Product Description

Clarity<sup>®</sup> AW premium hydraulic fluids are designed to provide good performance, protection, and efficiency in severe, high-output applications, such as axial piston pumps, and are especially suited for high-pressure industrial uses exceeding 5000 psi.

Clarity AW is formulated with premium base oil technology in combination with a premium zinc- and ash-free additive system, to contribute to advanced oxidation stability, water separation, and foam suppression and help provide effective wear, rust, and corrosion protection.

### Customer benefits and product features

#### Customer benefits

- **Premium performance**  
Ashless formulation meets or exceeds major vane, piston and gear pump manufacturer requirements for viscosity, rust and corrosion protection, hydrolytic stability, water separability, foam inhibition, and filterability.
- **Promotes longer service life**  
Premium base stocks and additives help to provide exceptional oxidation stability that enables longer service life than conventional zinc-based anti-wear hydraulic oils.
- **Equipment protection**  
Excellent anti-wear properties help provide robust protection for equipment under severe operating conditions.
- **Environmental sensitivity**  
Very low acute aquatic toxicity to both fish and invertebrates based on tests of water accommodated fractions, aiding safer disposal in conventional recycling programs.

#### Product features

- The zinc-free, ashless formulation makes it well suited for applications involving yellow metals found in hydraulic systems.
- Designed to help provide excellent protection in mobile and stationary hydraulic vane, piston, and gear-type pumps and in high performance industrial applications as well as in environmentally sensitive areas.

### Applications

- Clarity AW is designed for use in mobile and stationary hydraulic vane, piston, and gear-type pumps.
- Clarity AW has shown excellent performance in applications involving servo-valves using multi-metal components.

### Product approvals, performance and recommendations

CLARITY <sup>®</sup> AW	ISO 32	ISO 46	ISO 68
Eaton E-FDGN-TB002-E	Approved	Approved	Approved
Parker Hannifan (Denison) HF-0, HF-1, HF-2	Approved	Approved	Approved
Siemens Energy Std 3.1-0251-9800 (ISO 46)	-	Approved	-
ASTM D6158-HM	Meets requirements	Meets requirements	Meets requirements
DIN 51524/2 HLP	Meets requirements	Meets requirements	Meets requirements
ISO 11158-HM	Meets requirements	Meets requirements	Meets requirements
GB 11118.1 L-HM High Pressure	Meets requirements	Meets requirements	Meets requirements
Fives Cincinnati P-68, P-70, P-69	Meets requirements	Meets requirements	Meets requirements
Hitachi/John Deere Construction JCMAS HK	Meets requirements	Meets requirements	-

### Product maintenance and handling

Clarity AW is not compatible with zinc/calcium containing fluids, and OEM recommended lubricant change-out procedures including drain and flush requirements need to be adhered to.

Do not use in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well-ventilated areas. Keep container closed.

## Typical Test Data

CLARITY <sup>®</sup> AW	TEST METHOD	RESULTS		
<b>ISO Grade</b>		<b>32</b>	<b>46</b>	<b>68</b>
<b>Product Code</b>		<b>804650</b>	<b>804651</b>	<b>804652</b>
Density @ 15 kg/L	ASTM D4052	0.856	0.8647	0.8671
Air Release Time, 50.0 min	ASTM D3427	1.6	3.18	3.21
Kinematic Viscosity, mm <sup>2</sup> /s @ 40°C	ASTM D445	6.5	8.15	11.85
mm <sup>2</sup> /s @ 100°C	ASTM D445	31.81	43.72	67.12
Viscosity Index		115	107	108
Flash Point, COC °C	ASTM D92	227	238	248
Pour Point °C	ASTM D97	-40	-38	-35
Copper Corrosion 3 h, 100	ASTM D130	1A	1A	1A

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ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Africa, Middle East and Pakistan region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

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