Clarity® Elitesyn™ AW

Premium Antiwear High VI Ashless Hydraulic Oil

Product Description

Clarity® EliteSyn™ AW oils are premium high viscosity index (VI) ashless zinc-free anti-wear hydraulic fluids designed to meet the stringent demands of modern OEM designs, where increased performance is required. They are engineered to provide protection and help improve productivity and efficiency in both mobile and stationary hydraulic equipment applications. These are high viscosity index fluids that provide a wide operating temperature range.

Customer benefits and product features

Customer benefits

- **Hydraulic system efficiency**
  High performance formula helps to improve hydraulic response time. It also contributes to an increase in operating temperature range and can improve production, as well as offering potential for lower energy costs.
- **Meet OEM performance requirements**
  Ashless formulation meets or exceeds major vane, piston and gear pump manufacturer requirements. They offer protection of hydraulic systems against wear, rust and corrosion along with hydrolytic stability, water separability, and filterability for smooth equipment operation.
- **Oxidation and thermal stability**
  Thermal stability properties help to minimize varnish and sludge formation, to maintain product viscosity and contribute to longer oil life.
- **Provides air release and foam control**
  Designed to ensure low air content in hydraulic fluid for improved equipment responsiveness.
- **Wide operating temperature range**
  Minimum change in viscosity over wide operating temperatures due to high viscosity index. Multi-viscosity performance reduces the need to change viscosity grades for seasonal changes.
- **Low temperature pumpability**
  Specifically developed to ensure good low temperature fluidity in low temperature operations, with operating temperatures as low as -40°C for ISO 32 grade, and -30°C for ISO 46 and 68 grades.
- **Low toxicity**
  Zinc-free formula is inherently biodegradable[1] and has very low acute aquatic toxicity to both fish and invertebrates based on water accommodated fraction tests, aiding safer disposal in conventional recycling programs.

[1] Inherently biodegradable by OECD 301D testing and guidelines in EPA 800-R-11-002, November 2011 evaluations for a similar product. Product is not considered readily biodegradable as defined, or meet the specific biodegradation criteria under defined testing conditions, as determined by the Organization for Economic Cooperation and Development (**OECD**). Clarity Bio EliteSyn AW should be used if a readily biodegradable Environmentally acceptable lubricant (according to the U.S. Environmental Protection Agency's Vessel General Permit) fluid is required.

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Customer benefits and product features *cont…*

Product features

- Clarity EliteSyn AW oils are designed to provide protection to both mobile and stationary hydraulic pumps in high performance industrial applications.
- Clarity EliteSyn AW oils are formulated with synthetic base stock and an ashless, zinc-free additive system that helps provide exceptional oxidation stability, water separability, foam suppression, and protection against wear, rust and corrosion.
- Clarity EliteSyn AW oils are formulated with high viscosity index to offer improved hydraulic response time and increased operating temperature range, while resisting shear viscosity loss.

Applications

Clarity EliteSyn AW is designed for various applications, including marine, agriculture, forestry, mining and construction. It is suitable for mobile and stationary hydraulic vane-, piston-, and gear-type pumps; and industrial applications where pressures may exceed 5000 psi.

Clarity Elitesyn AW is highly recommended for high pressure systems in injection moulding application and on mobile equipment.

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Product approvals, performance and recommendations

CLARITY ELITESYN® 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
AIST (US Steel) 126, 127	Meets requirements	Meets requirements	Meets requirements
ASTM D6158-HV	Meets requirements	Meets requirements	Meets requirements
DIN 51524/3 HVLP	Meets requirements	Meets requirements	Meets requirements
Fives Cincinnati P-68	Meets requirements	-	-
Fives Cincinnati P-69	-	-	Meets requirements
Fives Cincinnati P-70	-	Meets requirements	-
ISO 11158-HV	Meets requirements	Meets requirements	Meets requirements
JCMA JCMAS HK	Meets requirements	Meets requirements	-
SAE MS1004-HM	Meets requirements	Meets requirements	Meets requirements
Standardization Admin of PRC GB 11118.1 L-HV	Meets requirements	Meets requirements	Meets requirements

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Typical Test Data

CLARITY® ELITESYN™ AW	TEST METHOD	RESULTS		
ISO Grade		**32**	**46**	**68**
Product Code		**520463**	**520461**	**520462**
Density at 15°C kg/L	ASTM D4052	0.8455	0.8475	0.8472
Air Release Time, 50°C min	ASTM D3427	1.1	1.9	5.2
Acid Number mg KOH/g	ASTM D664	0.1	0.16	0.09
Kinematic Viscosity,				
mm^2/s at 40°C	ASTM D445	33	46.3	68
mm^2/s at 100°C	ASTM D445	7.1	9.15	11.5
Viscosity Index	ASTM D2270	186	184	164
Brookfield Viscosity, -20 cP	ASTM D2983	1200	1920	3270
Copper Corrosion 3h, 150°C	ASTM D130	1a	1a	1a
Flash Point, COC °C	ASTM D92	216	234	246
Rust Test, Proc. A, 24	ASTM D665	Pass	Pass	Pass
FZG load stage. A/8 3/90	DIN 51354	12	>12	>12
Acute Aquatic Toxicity (LC-50)	OECD 203	Pass	Pass	Pass

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ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Safety Data Sheet (SDS) 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 an SDS 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.

Customers should always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

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Chevron's Family of Brands

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