

ECOSURE HSE RANGE



DESCRIPTION

ECOSURE HSE is a range of biodegradable, high performance and anti-wear hydraulic fluids. These fluids are based on fully saturated renewable esters and use state-of-the-art ashless, zinc-free additive technology.

ECOSURE HSE meets the US EPA's definition of an Environmentally Acceptable Lubricant (EAL), as described in the Vessel General Permit (VGP).

APPLICATIONS

The ECOSURE HSE range can be used in hydraulic applications in sensitive environments where there is potential for fluid loss to occur. ECOSURE HSE is designed for use in heavy duty service, high pressure hydraulics and circulating systems in industrial, mining, marine and mobile applications.

CERTIFICATION

- Eaton Vickers 35VQ and 104C
- ISO 15380 category HEES environmental hydraulic fluids, synthetic ester
- Parker Hannifin Denison HF-1, HF-2, HF-6

COMPATIBILITY

Compatible with standard NBR1, HNBR and FKM seal elastomers. Should not be used in systems with neoprene, butyl rubber and EPDM.

FEATURES AND BENEFITS

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|-----------------------------------|--|
| • Biodegradable | Reduced environmental impact in the event of spillage |
| • Outstanding oxidation stability | Less sludge and longer fluid life |
| • Extreme temperature resistance | Extended lubrication intervals |
| • Excellent thermal stability | Less fluid thickening and system failures |
| • Improved lubricity | Reduced wear and longer pump life |
| • Superior demulsification | Excellent water separation |
| • Good shear stability | Less viscosity loss, fewer fluid changes and prolonged pump life |
| • Good long-term filterability | Less filter blockages and downtime |

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Certified to the ISO 9001
Quality Standard and the
ISO 14001 Environmental
Management Standard



ECOSURE HSE RANGE



TYPICAL CHARACTERISTICS AND PROPERTIES

ECOSURE HSE RANGE	TEST METHOD	32	46	68
Appearance	Visual	Pale Yellow	Pale Yellow	Pale Yellow
Viscosity at 40°C (cSt)	ASTM D7042	32	46	68
Viscosity Index	ASTM D2270	150	151	153
Pour Point (°C)	ASTM D7346	<-48	<-35	<-35
Flash Point (°C)	ASTM D92	>180	>180	>180
Density @15°C (kg/l)	ISO 12185	0.912	0.905	0.913
Shelf Life	5 years in original sealed containers whilst stored out of direct sunlight			

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