

Athen Marine Hyd EAL Series

Environmentally Acceptable Hydraulic fluids.

Product Description

Athen Marine Hyd EAL Series is a range of environmentally acceptable lubricants (EALs). These HEES fluids are based on fully saturated renewable esters using state-of-the-art ashless, zinc-free additives. These are highly biodegradable and recommended for use in situations where leakage or spillage may present a risk of harm to the environment.

Features & Benefits

- ➔ This range demonstrates an excellent viscosity–temperature relationship and, unlike many high-VI mineral hydraulic oils, is formulated without viscosity index improvers, ensuring no viscosity loss through shear during operation.
- ➔ They provide strong oxidation resistance, delivering longer service life compared to many biodegradable hydraulic fluids and conventional mineral oil–based alternatives.
- ➔ The products are biodegradable in accordance with OECD 301B testing, classified as minimally toxic under OECD 201/202/203 protocols, and therefore comply with the US EPA VGP 2013 / VIDA requirements for Environmentally Acceptable Lubricants.
- ➔ Having very good wear protection, seal compatibility, demulsification, hydrolytic stability, and foaming/air release

Applications

- ➔ Range can be used in hydraulic applications in sensitive marine environments, where there is potential for fluid loss to occur and where water contamination is possible.

Typical Characteristics

Athen Marine Hyd EAL Series					
Performance meets/exceeds	ISO 6743/4 - Hydraulic Oils Type HEES, US EPA VGP 2013/VIDA				
Typical Characteristics	SAE Grade	32	46	68	100
Test Parameters	ASTM Method	Typical			
Appearance	Visual	Clear Yellow			
Density @ 15°C, kg/l	D 1298	0.92	0.925	0.925	0.93
Viscosity @ 40°C, cSt	D 445	32	46	68	100
Viscosity @ 100°C, cSt	D 445	Report	Report	Report	Report
Viscosity Index	ASTM D2270	170	170	170	170
Flash Point, °C	D 92	220	220	220	220
Pour Point, °C	D 97	<-30	<-30	<-30	<-30

"Data provided in this PDS is based on standard tests under laboratory conditions and is indicative only. Minor variations that do not affect product performance are expected in normal manufacturing. This product should not be used for any purpose other than those expressly set out in this PDS"