



# NoSheen EAL SERIES HYDRAULIC FLUIDS

## No Sheen, High Performance, Water Soluble







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**Hydrolytic Stability** – Unlike vegetable oil and fully saturated synthetic ester based environmentally friendly hydraulic fluids, NoSheen EAL Series hydraulic fluids will not hydrolyze in the presence of water. This protects hydraulic systems from decreased equipment life and potential system failure due to the presence of harmful acids (increased Total Acid Number values) generated by the hydrolysis of vegetable oil or fully saturated synthetic ester based hydraulic fluids.

**High Waste Treatability** – NoSheen EAL Series hydraulic fluids are highly waste-treatable. In tests simulating the discharge of industrial waste streams to un-acclimated municipal treatment plants (POTWs), NoSheen EAL-32 fluid demonstrated no adverse impact on the proper functioning performance of the waste treatment systems, even at high discharge levels.

**Non-Sludge or Varnish Forming** – NoSheen EAL Series hydraulic fluids are oxidatively stable and will not form sludge or varnish upon degradation as occurs with mineral oil and oil miscible base stock type hydraulic fluids. Neptune® AW Series hydraulic fluids can extend maintenance change out intervals, increase system cleanliness, and improve overall service life.







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**Thermal Stability** – NoSheen EAL Series hydraulic fluids are long-lasting products that resist thermal breakdown and are unaffected by a small amount of water contamination. When the fluid does eventually begin to degrade, the degradation components are soluble in the fluid and do not create water insoluble deposits and sludge.

**All-Weather Service** – With high viscosity indices and low pour points, NoSheen EAL Series hydraulic fluids may be used year-round, eliminating season changeovers. One Neptune® AW Series hydraulic fluid may replace multiple viscosity grade oils.

**Material Compatibility** – NoSheen EAL Series hydraulic fluids are typically not soluble with petroleum-based oils. This allows the petroleum oil to be easily removed from the system pending the results of a compatibility study. The fluids are compatible with seals, hoses, and metals commonly found in hydraulic systems.







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Fluid Compatibility – NoSheen EAL Series hydraulic fluids are fully compatible with other Neptune<sup>®</sup> lubricants. Neptune<sup>®</sup> AW hydraulic fluids and gear oils that meet the 2013 VGP having an ISO VG 10 - 220.

Seal Compatibility - NoSheen EAL hydraulic fluids are compatible with many common and high-performance elastomers. Contact your local Neptune<sup>®</sup> distributor for additional information.





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## No-Sheen Performance Comparison

Clear visual comparison of fluid sheening characteristics is made possible by adding an illuminating agent to the hydraulic fluids, then adding the hydraulic fluids to water under a black light.

In a comparison conducted under identical conditions, other hydraulic fluids quickly formed a visible sheen on the surface when added to water. In contrast, when a NoSheen EAL AW Series hydraulic fluid was introduced into water, the hydraulic fluid sank immediately, leaving no sheen on the surface. The samples were then subjected to significant agitation. The NoSheen EAL Series hydraulic fluid dispersed completely into the water; when the agitation stopped, there was still no sheen. When agitation of the other fluids ceased, surface sheens quickly reformed.





# NoSheen EAL Series Hydraulic Fluids

The only hydraulic fluid chemistry fully compliant with the 2013 VGP, U.S. EPA Clean Water Act and USCG Surface Force Logistics Center EAL Standards

