



# LS-523

## Anti-wear Hydraulic Additive

**Lone Star  
Enterprises**

### Description

**LS-523** is a low zinc anti-wear hydraulic package for formulating premium quality lubricant for industrial oil additives which meeting Denison HF-0 requirements.

Some of the main features of **LS-523** are excellent wear protection, Filterability in the presence of water, Protection of yellow metals in the presence of water and Robust oxidation, rust and corrosion protection.

### Recommended Dosage

The recommended dosage for **LS-523** is 0.6 % weight.

### Typical Properties

<i>Property</i>	<i>Unit</i>	<i>Value</i>	<i>Method</i>
<i>Density @ 15° C</i>	kg/m <sup>3</sup>	0.98 – 0.99	ASTM D4052
<i>Flash Point (Open Cup)</i>	° C	180 >	ASTM D92
<i>Viscosity at 40° C</i>	cSt	60 - 80	ASTM D445
<i>Zinc</i>	mass %	3.1 – 3.8	ASTM D6595
<i>Phosphorus</i>	mass %	2.6 – 3.2	ASTM D6595
<i>Appearance</i>	Brown Oily Liquid		

### Storage and Handling

This product can be blended using conventional equipment for blending finished fluids. Follow precautions normally taken for handling lube oil stocks. Do not heat over the maximum loading/unloading temperature. Avoid contact with water which can cause product degradation. Avoid high temperature contact with air which darkens product. Avoid contact with moist air. Tanks should have adequate agitation to avoid excessive skin temperatures. Dry conditions are essential since water may promote decomposition of the additive. Min Load/Unload Temp: 55 °C (131 °F) Max Load/Unload Temp: 65 °C (149 °F) Shelf Life Recommendation: 24 months @ ambient temperature

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**LONE STAR EFFICIENT FORMULATION**