



The Elco Corporation

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## Elco 498 Turbine and R&O Hydraulic Oil Additive

### Features

Elco 498 is an additive package for use in preparing turbine oils. Elco 498 can also be used as a rust and oxidation inhibitor for hydraulic fluids. When formulated in a suitable base stock, Elco 498 imparts these benefits:

- Extended oil life and pump durability
- Antiwear performance
- Good antifoam, filterability and demulsibility characteristics
- Excellent thermal and oxidation stability
- Compatible in Group I and II

### Application

Treated at 0.6% volume (0.7% weight) in suitable base stocks, Elco 498 will meet or exceed the requirements of:

- Cincinnati Machine P-38, P-55, P-57
- General Electric GEK-32568
- U.S. Steel 126

### Characteristics

<u>Physical</u>	<u>Typical</u>
Flash Point	95°C min
Specific Gravity	0.96 (8.0 lb/gal)
Viscosity @ 40°C	30 cSt
<u>Chemical</u>	
Phosphorus	1.5% wt

### Recommended Blending, Handling and Storage Conditions

Elco 498 can be blended with mechanical or in-line blending equipment at temperatures not above 140°F (60°C) or below 60°F (16°C). The additive can be heated to 140°F (60°C) for unloading or transfer, but should not be stored for long periods at temperatures over 120°F (50°C).

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### Performance Characteristics

Characteristics	Test Method	0.7% wt Elco 498 in ISO 32 Base Stock	0.7% wt Elco 498 in ISO 46 Base Stock
<b>Acidity</b> mg KOH/g	ASTM D 974	0.12	0.18
<b>Copper Corrosion</b>	ASTM D 130	1b	1b
<b>Demulsibility</b> Oil-water-emulsion (min)	ASTM D 1401	40-40-0 (10)	40-40-0(15)
<b>Foam</b> Sequence I Sequence II Sequence III	ASTM D 892	20/0 20/0 20/0	30/0 20/0 20/0
<b>Oxidation</b> (Sample Pre-purged with Nitrogen for 48 hrs @ 250°F at 3 Liters/hr Result must be >85% of Original) Minutes	D 2272 (Mod)	580	605
<b>Oxidation</b> Hrs to TAN 2.0	ASTM D 943	3400	3400
<b>Rotary Bomb Oxidation</b> Minutes	ASTM D 2272	650	640
<b>Steel Corrosion</b> Distilled Water Sea Water	ASTM D 665	Pass Pass	Pass Pass
<b>Thermal Stability, Proc. A</b> TAN, % Viscosity, % Sludge, mg/100 mL	CM	66 2 25	57 0.85 25
<b>Steel Rod</b> Color Deposit, mg Wt Loss, mg		1 1.0 0.2	1 1.0 0.2
<b>Copper Rod</b> Color Wt Loss, mg		2 0.6	2 2.4