



The Elco Corporation

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## Elco 313A Slideway Lubricant Additive

### Features

Elco 313A is a slideway additive that when formulated in an appropriate base stock provides a wide range of benefits.

The benefits of 313A include:

- Excellent stick slip
  - Exceptional antiwear and EP performance
  - Good filterability and demulsibility characteristics
  - Excellent thermal and oxidation stability
  - Light color and non-offensive odor
  - Soluble / compatible in Group I, II, III base stocks
  - Compatible with most industrial soluble oils and coolants
- Elco 313A provides consistent 1-2 ratings in SKC soluble oil compatibility testing

### Application

At a treatment level of 1.75% weight (1.50% volume), Elco 313A in suitable base stocks will meet or exceed the requirements of:

- Cincinnati Machine P-47, P-50, and P-53 way oil specifications
- GM LS-2

### Characteristics

<u>Physical</u>	<u>Typical</u>
Flash Point	110°C min
Specific Gravity	0.96 (8.00 lb/gal)
Viscosity @ 40°C	15 cSt
<u>Chemical</u>	
Phosphorus	0.4 %
Sulfur	16.0 %

### Recommended Blending, Handling and Storage Conditions

Elco 313A can be blended with mechanical or in-line blending equipment at temperatures not above 125°F (52°C) or below 60°F (16°C). The additive can be heated to 125°F (52°C) for unloading or transfer, but should not be stored for long periods at temperatures over 100°F (38°C).

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## Performance Characteristics

**Formulation:** 1.75 wt% Elco 313A in Chevron RLOP Stock – Group II

ISO 32            26.5% 8064 + 71.75% 7978  
 ISO 68           78.0% 8064 + 20.25% 7978  
 ISO 220         53.8% Exxon Bright + 44.45% 8064

Characteristics	Test Method	ISO 32	ISO 68	ISO 220
Copper Corrosion	D 130	1b	1b	1b
Demulsibility 40-40-0 (minutes)	D 1401	10	15	15
Steel Corrosion	D 665B	Pass	Pass	Pass
Four Ball Wear, Scar, mm 20 kg, 1800 rpm, 1 hr, 130°F	D 4172	0.37	0.29	0.26
Timken OK Load, lbs	D 2782	40	45	60
Brugger Load Capacity, N/mm <sup>2</sup>	DIN 51347	----	56.9	----
Demulsibility Total Free Water, mL Free Water from Funnel, mL Emulsion, mL Water in Oil, %	D 2711	83.3 83.0 Nil 0.5	82.1 82.0 Nil 1.0	84.3 84.0 Nil 0.5
Thermal Stability Sludge Copper Rod Appearance, CM Color Code Steel Rod Appearance, CM Color Code	CM-Proced. B	None 4 1	None 3 1	None 4 1
Stick-Slip, Ratio	CM	0.80	0.78	0.78
Solubility at Room Temperature Initial After 30 Days		Clear “	Clear “	Clear “

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