

## VCS Z104

**VCS Z104** is used for Hydraulic Oil, Engine Oil, Metalworking Fluids, Industrial Gear Oil, and Greases.

Composition

Zinc Dialkyldithiophosphate with primary alkyl groups

### TYPICAL CHARACTERISTICS

| Property                                  | Unit              | Specifications | Typical Value | Test Method            |
|-------------------------------------------|-------------------|----------------|---------------|------------------------|
| Appearance                                | -                 | Clear Liquid   |               | Visually               |
| Color                                     | -                 | 4.0 Max        | 2.0           | ASTM D 1500            |
| Viscosity, 40°C                           | cSt               | 150.0 – 230.0  | 190.0         | ASTM D 445             |
| Density, 20°C                             | g/cm <sup>3</sup> | 1.11 - 1.21    | 1.16          | ASTM D 941             |
| Zinc                                      | %                 | 10.0 – 11.0    | 10.5          | QCD/TM/151 (Titration) |
| Sulfur                                    | %                 | 18.4 – 19.6    | 19.0          | QCD/TM/234 (LECO)      |
| Phosphorus                                | %                 | 9.2 – 9.8      | 9.5           | QCD/TM/311 (ICP-OES)   |
| Copper Corrosion – 1% in mineral base oil |                   | 1a -1b         | -             | ASTM D 130             |
| Flash Point                               | °C                | 150.0 min      | -             | ASTM D 92              |
|                                           | °C                | 121.0 min      | -             | ASTM D 93              |
| Mineral Oil Content                       | %                 | 8.0 – 12.0     | 10.0          | Calculated             |

### RECOMMENDED BLENDING, HANDLING & STORAGE CONDITIONS

Store in a cool and dry place. Stable for up to 24 months from the date of manufacturing when stored in the original packing material in a cool and dry environment. It has a maximum recommended handling/blending temperature of 60°C.

### PACKAGING

Available in 200 kg drums.

*NOTE: Values indicated are typical physical properties and are not specification limits. Seller offers no warranty, expressed or implied, concerning the suitability of this product for any particular purpose.*

