**American Chemical Technologies**
485 E. Van Riper Rd
Fowlerville, MI 48836
(517) 223-0300 Fax: (517) 223-1703

## Chloride and EHC Hydraulic Fluids

> **Chloride**: *The chloride ion is formed when the element chlorine picks up one electron to form an anion (negatively-charged ion) Cl−. The salts of hydrochloric acid HCl contain chloride ions and can also be called chlorides. An example is table salt, which is sodium chloride with the chemical formula NaCl. In water, it dissolves into Na+ and Cl− ions. The word chloride can also refer to a chemical compound in which one or more chlorine atoms are covalently bonded in the molecule..*

Phosphate ester EHC fluids are manufactured using phosphorus oxychloride. Therefore, analysis of chloride content is a measure of the concentration of residual by-products remaining in the Phosphate ester EHC fluid.

The chloride content of a non-purified phosphate ester EHC fluid could be as high as 24% (240,000ppm). High chloride content would signify potential problems with a phosphate ester EHC fluid that could be linked directly to the manufacturing process for the product.

By contrast, EcoSafe® EHC does not contain and is not manufactured using chlorides. Therefore, any analysis would be expected to yield only trace amounts of this material.