

# GUIDE TO COOLANT AND COOLING SYSTEM MAINTENANCE

## COOLANT COMPOSITION AND FUNCTION

### Conventional Coolant Components

- Ethylene/Propylene Glycol
  - Freeze Point Suppression
  - Boil Point Elevation
- Phosphate
  - Iron Protection
  - pH Control
- Silicate
  - Iron Protection
  - pH Control
- Silicate
  - Aluminum Corrosion Protection
- Nitrite
  - Cast Iron and Steel Protection
- Nitrate
  - Aluminum and Solder Corrosion Protection
- Mercaptobenzothiazole (MBT) and Tolythiazole (TT)
  - Copper and Brass Protection
- Block Polymers
  - Defoliant
  - Scale and Deposit Control

**NOTE:** Be sure to check your supplemental coolant additive and glycol levels at every oil change to ensure proper protection. Coolant should be tested periodically if there is a drop in SOC levels.

### Extended Life Coolant Components

- Ethylene Glycol
  - Freeze Point Suppression & Boil Point Elevation
- Potassium Soap of Dibasic Carboxylic Acid
  - Iron, Solder and Aluminum Protection
- Potassium Soap of Monobasic Carboxylic Acid
  - Aluminum and Iron (white/cast) Protection
- Nitrite
  - Cast Iron and Steel Protection
- Molybdate
  - Iron Corrosion Protection (white/cast)
- Tolythiazole
  - Copper Corrosion Protection
- Modified Silicic Acid Defoliant
  - Defoliant

**NOTE:** Mixing ELC formulations with a conventional coolant will degrade ELC benefits. If changing from a conventional to an ELC product, be sure to clean and flush the system thoroughly first unless conversion fluid is used.

## COOLANT MAINTENANCE

### Visual Appearance

|                                                                                                                                                                                                                                                                                     | PROBABLE CAUSE                                                                   | POTENTIAL DAMAGE                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Color</b> <ul style="list-style-type: none"> <li>Should be clear and bright</li> </ul>                                                                                                                                                                                           |                                                                                  |                                                                                                                |
| <b>Oil in Coolant</b> <ul style="list-style-type: none"> <li>Free from oil or petroleum products (can cause seal failures)</li> </ul>                                                                                                                                               | oil cooler rubber seal or pipe leaks;<br>combustion gas blow-by into the coolant | loss of heat transfer, liner and water pump seal damage, block head water passage seal damage                  |
| <b>Non-Magnetic/Magnetic Precipitate</b> <ul style="list-style-type: none"> <li>Free from precipitate, flocculent, algae, bacteria, and/or sludge (outside contaminants entering the system or coolant chemical dropout); magnetic precipitate should be a trace or less</li> </ul> | improper coolant use, air leaks, defective electrical grounds                    | water pump seal abrasion, increased soft metal corrosion (copper & aluminum), liner pitting around lower seals |

**NOTE:** Simple appearance alone does not determine whether a potentially harmful problem exists within the cooling system.

### Antifreeze/Glycol %

|          | RECOMMENDATIONS                                                                                                                                                                                                                                               | PROBABLE CAUSE                                                                                                                 | POTENTIAL DAMAGE                                                                                                                                 |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Too Low  | <ul style="list-style-type: none"> <li>Antifreeze level will vary by application and elevation at which the system operates</li> <li>Engines operating at 195° or above must be at 50% for boil point control</li> </ul>                                      | <ul style="list-style-type: none"> <li>Improper mixing of bulk coolant</li> <li>Topping off with water only</li> </ul>         | <ul style="list-style-type: none"> <li>Coolant may boil or the block may freeze</li> <li>Can cause cavitation and/or corrosion damage</li> </ul> |
| Too High | <ul style="list-style-type: none"> <li>Engines operating at 5500 ft. and above should maintain a 55-60% antifreeze level to prevent coolant boiling</li> <li>Marine applications must maintain 50-60% antifreeze if the system operates above 195°</li> </ul> | <ul style="list-style-type: none"> <li>Improper mixing of bulk coolant</li> <li>Topping off with glycol concentrate</li> </ul> | <ul style="list-style-type: none"> <li>Loss of heat transfer</li> <li>Cavitation</li> <li>Pitted liners</li> <li>Seals may fail</li> </ul>       |

### pH

|         | RECOMMENDATIONS                                                                                                                                                                                                                         | PROBABLE CAUSE                                                                                                                                                                                                                                                                                                       | POTENTIAL DAMAGE                                                                                                                                                                                                                                                                         |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Too Low | <ul style="list-style-type: none"> <li>Conventional Coolant: 8.5 to 11</li> <li>ELC Formulation: typically 7.0 to 8.5; if pH is above 9.0, possible ELC and conventional coolant mixing</li> <li>Correct cause of drop in pH</li> </ul> | <ul style="list-style-type: none"> <li>Coolant is plain water</li> <li>Source water does not meet engine manufacturer specifications</li> <li>Ethylene glycol is beginning to decompose</li> <li>Coolant is burnt</li> <li>Combustion gas leak</li> <li>Acid type cleaner used and not flushed thoroughly</li> </ul> | <ul style="list-style-type: none"> <li>Corrosion on iron components as well as other metals in the system</li> <li>Electrolysis pitting through liners</li> <li>Corrosive attack on engine block</li> <li>Possible corrosion protection chemicals precipitate out of solution</li> </ul> |

### Specific Conductance

|  | RECOMMENDATIONS                                                                                                                                                         | PROBABLE CAUSE                                                                                                                                                                                                                                          | POTENTIAL DAMAGE                                                                                                                                                                                                               |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> <li>Normally this level will be between 1500 and 5000 microhm/cm</li> <li>When level is excessive, find cause and correct</li> </ul> | <ul style="list-style-type: none"> <li>Improper source water</li> <li>Combustion gas leak</li> <li>Antifreeze level too high</li> <li>Inhibitor level too high</li> <li>Inhibitor being added too many times over an extended period of time</li> </ul> | <ul style="list-style-type: none"> <li>The inability of the coolant to resist carrying an electrical current between the dissimilar metals of an engine's cooling system</li> <li>Engine becomes a wet cell battery</li> </ul> |

### Total Metals

|  | RECOMMENDATIONS |            |         |         | PROBABLE CAUSE                                                                                                                                                | POTENTIAL DAMAGE                                                                              |
|--|-----------------|------------|---------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|  | Metal           | Borderline | Concern | Problem |                                                                                                                                                               |                                                                                               |
|  | Iron            | 15         | 25      | 35      | <ul style="list-style-type: none"> <li>Air leaks</li> <li>Electrical ground problems</li> <li>Combustion gas leaks</li> <li>Localized over heating</li> </ul> | <ul style="list-style-type: none"> <li>Metall corrosion</li> <li>Liner Pitting</li> </ul>     |
|  | Copper          | 5          | 10      | 15      | <ul style="list-style-type: none"> <li>Improper coolant maintenance</li> </ul>                                                                                | <ul style="list-style-type: none"> <li>Corrosion or erosion of any iron components</li> </ul> |
|  | Aluminum        | 5          | 10      | 15      |                                                                                                                                                               |                                                                                               |
|  | Lead            | 15         | 25      | 35      | <ul style="list-style-type: none"> <li>Improper source water being used</li> </ul>                                                                            |                                                                                               |
|  | Zinc            | 15         | 25      | 35      |                                                                                                                                                               |                                                                                               |
|  | Pb              | 15         | 25      | 35      |                                                                                                                                                               |                                                                                               |

# Coolant Guide

**Xiaolong Qi**



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