

Florida Boat & Yacht Surveyors

Marine Oil Analysis Laboratory

Understanding Your Oil Analysis Report

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| <u>Aluminum</u> | Pistons, Bearings, Housings, Thrust Washers, Bushings |
| <u>Chromium</u> | Compression Rings, Low Friction Bearings, Liners, Chromate Cooling Systems |
| <u>Copper</u> | Bearings, Bushings, Thrust Washers, Oil Coolers, Clutches, Oil Additives |
| <u>Iron</u> | Crankshafts, Valve Trains, Cylinders, Gears, Liners, Bearings |
| <u>Lead</u> | Bearings |
| <u>Tin</u> | Pistons, Bearings, Bushings |
| <u>Silicon</u> | Dirt, Sand, Seal Material, Silicon Based Oil and Coolant Additives |
| <u>Potassium</u> | Coolant Additives, Salt Water |
| <u>Sodium</u> | Oil Additive, Coolant Additive, Salt Water |
| <u>Water</u> | Condensation, Cooling System Leak, Outside Contamination |
| <u>Glycol</u> | Antifreeze |
| <u>Fuel Dilution</u> | Gasoline or Diesel |
| <u>Oxidation</u> | Absorbance of oxygen |
| <u>Nitration</u> | Gasoline Fuel Combustion Product |
| <u>Soot</u> | Diesel Fuel Combustion Product |
| <u>Viscosity</u> | Thickness, Ability to flow |
| <u>Total Base Number</u> | Alkaline Reserve reduced by Aging and Combustion Gases |

Accuracy of recommendations is dependent on representative oil samples and completely correct data on both unit and oil. This analysis is intended as an aid in predicting mechanical wear, no guarantee, expressed or implied, is made against failure of this component.