OIL ANALYSIS REPORT

VALA RAD KOHLER 2022076 - GENSET

 Sample No:
 VPA062015

 Oil Type:
 SAE 30W

SAMPLE INFORMATION

| 2 Unit FE INI OVINIT HOM | | | | | |
|--------------------------|----------|--------------|--|--|--|
| Sample Number | | VPA062015 | | | |
| Sample Date | | 06 May 2024 | | | |
| Machine Hours | | 15 | | | |
| Oil Hours | | 5 | | | |
| Oil Changed | | Not Changd | | | |
| Sample Status | | SEVERE | | | |
| | | | | | |
| OIL CONDITION | | | | | |
| Visc @ 100°C | cSt | 8.8 | | | |
| Base Number (BN) | mg KOH/g | 8.1 | | | |
| Oxidation (PA) | % | 35 | | | |
| CONTRACTION | | | | | |
| CONTAMINATION | | | | | |
| Water | % | NEG | | | |
| Soot % | % | 0 | | | |
| Nitration (PA) | % | 57 | | | |
| Sulfation (PA) | % | 43 | | | |
| Glycol | % | NEG | | | |
| Fuel | % | 12.5 | | | |
| Silicon | ppm | 32 | | | |
| Sodium | ppm | 1 9 | | | |
| Potassium | ppm | 4 | | | |
| | | | | | |
| WEAR METALS | | | | | |
| Iron | ppm | 22 | | | |
| Copper | ppm | 34 | | | |
| Lead | ppm | 2 | | | |
| Tin | ppm | □<1 | | | |
| Aluminum | ppm | 5 | | | |
| Chromium | ppm | □ <1 | | | |
| Molybdenum | ppm | 6 | | | |
| Nickel | ppm | ■ <1 | | | |
| Titanium | ppm | <1 | | | |
| Silver | ppm | 0 | | | |
| Manganese | ppm | □ <1 | | | |
| Vanadium | ppm | <1 | | | |
| ADDITIVES | | | | | |
| Calcium | ppm | 1910 | | | |
| Magnesium | ppm | 11 | | | |
| Zinc | ppm | 1181 | | | |
| Phosphorus | ppm | 970 | | | |
| Barium | ppm | 8 | | | |
| Boron | ppm | 9 | | | |
| | I= 10 | - | | | |

 Depot:
 VP152133

 Unique No:
 11022478

 Signed:
 Jonathan Hester

 Report Date:
 16 May 2024

Contact/Location: Mitchell Cogswell - VP152133

Report Id: VP152133 [WUSCAR] 06176425 (Generated: 05/16/2024 16:55:44) Rev: 1

Cogswell Marine & Motorsports, Inc 865 Stella Street CHULA VISTA, CA US 91911 Contact: Mitchell Cogswell Cogswellmarinemotorsports@gmail.com T: F:

Diagnosis

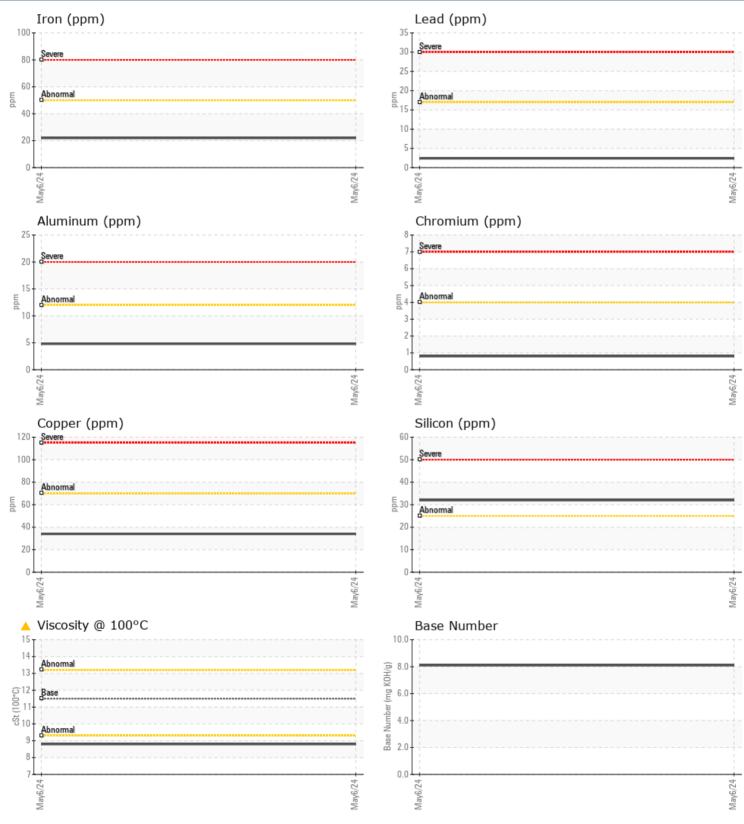
We suspect abnormal metal contamination may be due to sampling method. We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.Moderate concentration of visible metal present. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



OIL ANALYSIS REPORT



GRAPHS



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Contact/Location: Mitchell Cogswell - VP152133