### **CONSTRUCTION EQUIPMENT** 42067 - DIFSEL ENGINE



#### VCP433010 Sample No: Oi

VOLVO

Job No:

Barium

Boron

42067

#### SAMPLE INFORMATION VCP433010 VCP392539 Sample Number Sample Date 07 May 2024 16 Mar 2023 Machine Hours 3131 3503 Oil Hours 0 500 Changed Oil Changed Changed Sample Status SEVERE NORMAL **OIL CONDITION** Visc @ 100°C cSt 12.6 13.3 10.3 Base Number (BN) mg KOH/g 8.0 Oxidation (PA) 87 % 71 CONTAMINATION % NEG NEG Water Soot % % 0.4 0.1 Nitration (PA) % 93 40 % 66 59 Sulfation (PA) Glycol % **0.10** NEG % < 1.0 Fuel <1.0 Silicon ppm 8 6 Sodium ppm 🔺 793 10 Potassium ppm **42** 3 WEAR METALS 41 Iron ppm 2 < 1 Copper 13 ppm Lead 0 0 ppm Tin ppm 0 0 ppm Aluminum 5 1 □ <1 0 Chromium ppm Molybdenum ppm 69 38 Nickel 8 □ < 1 ppm Titanium 0 0 ppm 0 Silver 0 ppm Manganese < 1 ppm **||** < 1 Vanadium 0 <1 ppm **ADDITIVES** 1738 1568 Calcium ppm **449** 473 Magnesium ppm 1047 Zinc 979 ppm Phosphorus ppm 882 868

2

62



#### LANDMARK CONSTRUCTION CO. INC./MEM

3255 INDUSTRY DRIVE NORTH CHARLESTON, SC US 29418 Contact: GENE RICHARDSON grichardson@landmark-sc.com T: (843)767-9741 F: (843)767-9909

## Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. There is a high concentration of glycol present in the oil. 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.

LANNOR Depot: Unique No: 11019683 Signed: Don Baldridge **Report Date:** 11 May 2024

ppm

ppm

0 🔲

26

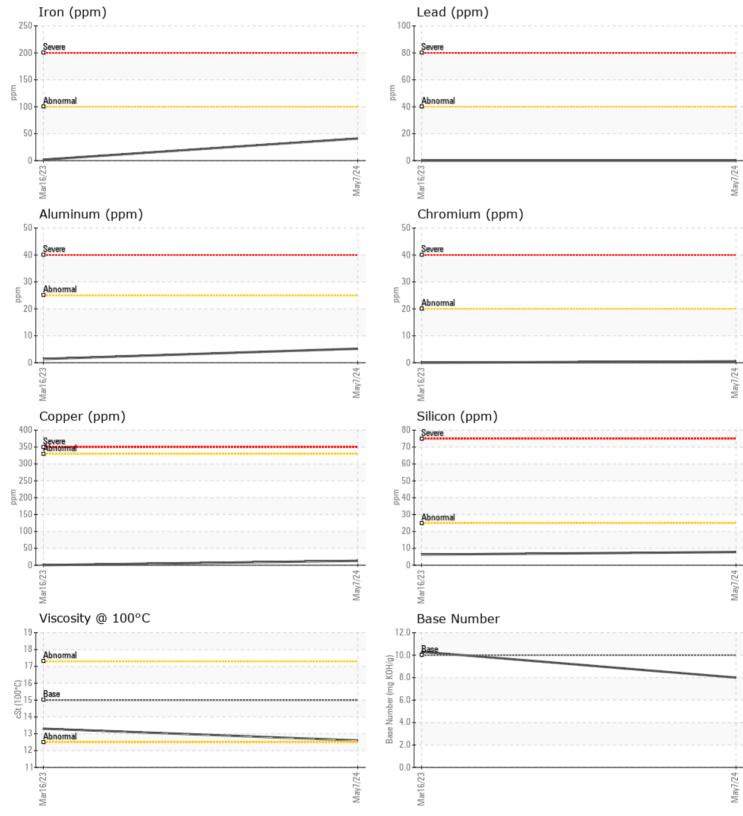
Contact/Location: GENE RICHARDSON - LANNOR

# **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Report Id: LANNOR [WUSCAR] 06173630 (Generated: 05/11/2024 13:11:34) Rev: 1

Contact/Location: GENE RICHARDSON - LANNOR