OIL ANALYSIS REPORT

ANDREW SANCHEZ TOM VOLVO PENTA 1101059852 - STARBOARD DIESEL ENGINE

Sample No: VPA061878

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION VPA061878 VPA041586 Sample Number Sample Date 05 Apr 2024 02 Aug 2022 Machine Hours 659 634 **Oil Hours** 0 0 Oil Changed Not Changd Not Changd SEVERE Sample Status ATTENTION **OIL CONDITION** F: Visc @ 100°C 13.7 cSt 13.4 9.9 Base Number (BN) mg KOH/g 8.2 Oxidation (PA) 53 54 % CONTAMINATION Water % NEG NFG % Soot % 0.1 0.1 Nitration (PA) % 71 67 Sulfation (PA) % 49 50 Glycol % **0.10** NFG Fuel % <1.0 <1.0 Silicon 6 7 ppm Sodium 107 ppm Potassium 8 ppm WEAR METALS Iron 22 13 ppm 38 6 Copper ppm Lead ppm **||** < 1 < 1 Tin 0 1 ppm Aluminum 2 ppm 2 Chromium <1 < 1 ppm Molybdenum 11 ppm 6 < 1 Nickel 0 ppm Titanium 0 🔲 < 1 ppm Silver 0 <1 ppm Manganese **||** <1 < 1 ppm Vanadium 0 0 ppm **ADDITIVES** Calcium 1202 ■1224 ppm Magnesium 802 636 ppm 792 Zinc ppm 767 Phosphorus ppm 727 664 Barium 0 0 ppm Boron ppm 109 142



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2775 KURTZ ST, STE 12 SAN DIEGO, CA US 92110 Contact: Terry Albee TALBEE@ADMIRALTYMARINE.NET T:

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. 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. 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.

 Depot:
 VP151529

 Unique No:
 10965781

 Signed:
 Jonathan Hester

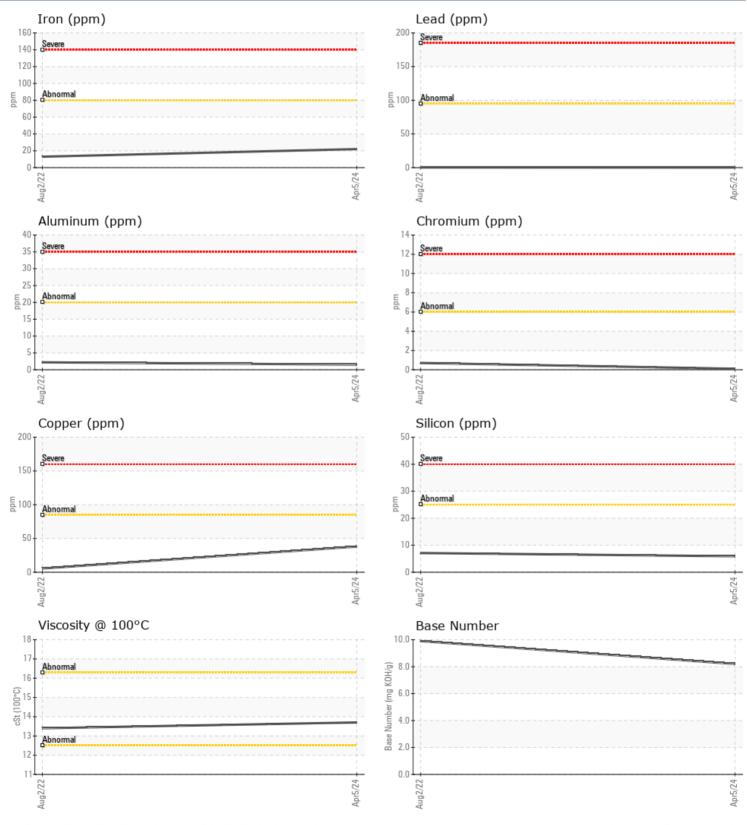
 Report Date:
 10 Apr 2024

Contact/Location: Terry Albee - VP151529

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GRAPHS



Report Id: VP151529 [WUSCAR] 06140973 (Generated: 04/10/2024 11:58:06) Rev: 1

Contact/Location: Terry Albee - VP151529 Page 2 of 2