OIL ANALYSIS REPORT

BRUCE DYER VOLVO PENTA 2013754063 - STARBOARD DIESEL ENGINE

Sample No: VPA047491

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION VPA047491 VPA037605 Sample Number Sample Date 06 Dec 2023 18 Aug 2021 Machine Hours 1298 511 **Oil Hours** 0 70 Oil Changed Not Changd Not Changd NORMAL Sample Status NORMAL **OIL CONDITION** 13.7 Visc @ 100°C cSt 13.3 Base Number (BN) mg KOH/g 7.7 Oxidation (PA) % 57 53 CONTAMINATION % NFG Water NEG % Soot % 0.4 0.9 Nitration (PA) % 53 51 % Sulfation (PA) 52 56 Glycol % NEG NEG Fuel % <1.0 <1.0 Silicon 4 8 ppm Sodium **||** <1 1 ppm Potassium 2 2 ppm WEAR METALS 13 Iron 8 🔲 ppm **||** <1 38 Copper ppm Lead ppm 0 🔲 < 1 Tin 0 <1 ppm Aluminum 0 ppm 1 Chromium <1 < 1 ppm 48 Molybdenum 61 ppm Nickel 0 🔲 0 ppm Titanium ppm 0 🔲 0 Silver 0 ppm Manganese 0 🔲 < 1 ppm 0 Vanadium ppm 0 **ADDITIVES** 1078 Calcium 1365 ppm Magnesium 582 922 ppm Zinc ppm 1156 1156 Phosphorus ppm 1024 1017 Barium 3 0 ppm Boron ppm 31 5



COASTAL CAROLINA YACHT SALES

145 LOCKWOOD BLVD CHARLESTON, SC US 29403 Contact: STEVE VASAS steve@ccyachtsales.com T: E:

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

 Depot:
 VP568144

 Unique No:
 10778820

 Signed:
 Doug Bogart

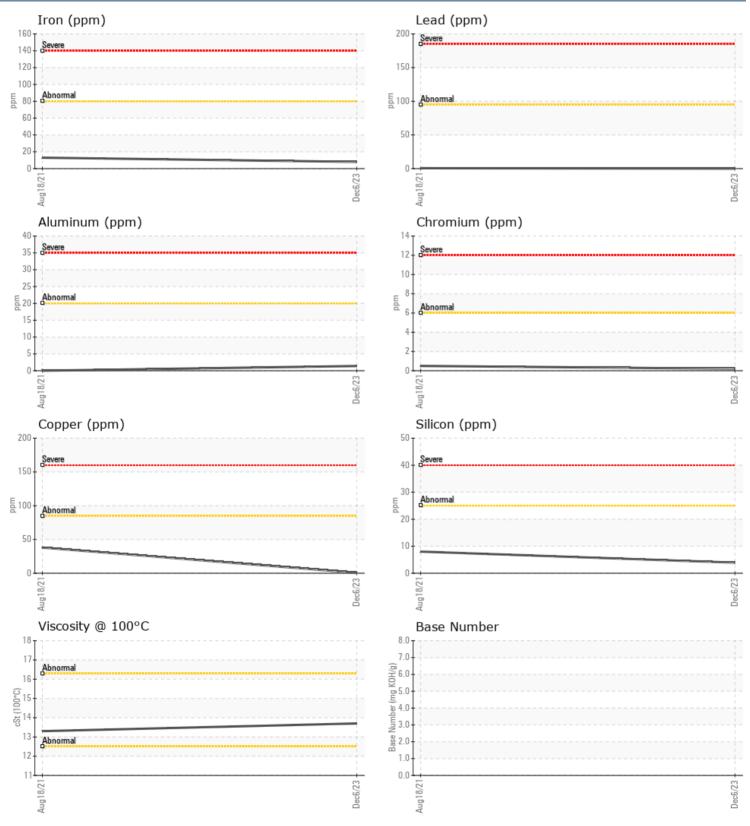
 Report Date:
 11 Dec 2023

Contact/Location: STEVE VASAS - VP568144

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GRAPHS



Report Id: VP568144 [WUSCAR] 06029029 (Generated: 12/12/2023 00:07:25) Rev: 1

Contact/Location: STEVE VASAS - VP568144