OIL ANALYSIS REPORT

VOLVO PENTA 2006017452 - STARBOARD DIESEL ENGINE

Sample No: VPA056473

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION VPA056473 VPA031045 Sample Number Sample Date 19 Mar 2024 11 Feb 2021 Machine Hours 0 438 0 0 **Oil Hours** Oil Changed Not Changd N/A NORMAL Sample Status NORMAL **OIL CONDITION** 13.8 Visc @ 100°C cSt 14.5 Base Number (BN) mg KOH/g 7.5 Oxidation (PA) % 57 62 CONTAMINATION Water % NEG NFG % Soot % 0.1 0.1 Nitration (PA) % 59 62 Sulfation (PA) % 50 55 Glycol % NEG NEG Fuel % <1.0 <1.0 Silicon 4 4 ppm Sodium 2 3 ppm Potassium 2 20 ppm WEAR METALS 11 Iron 8 ppm 13 8 Copper ppm Lead 0 ppm 1 🗌 Tin 0 ppm ■ <1 Aluminum 6 ppm 3 Chromium <1 2 ppm 44 Molybdenum 57 ppm Nickel 2 2 ppm Titanium ppm **||** <1 < 1 Silver 0 0 ppm Manganese < 1 **||** <1 ppm Vanadium 0 ppm <1 **ADDITIVES** 1438 Calcium **1117** ppm 674 1033 Magnesium ppm Zinc ppm 1051 1284 Phosphorus ppm 890 1168 Barium 0 🔲 11 ppm Boron ppm 22 23

 Depot:
 VP

 Unique No:
 10

 Signed:
 Dc

 Report Date:
 22

VP288530

Contact/Location: BEN ALMAZAN - VP288530



MARINE DIESEL SERVICES INC

marinedieselservices@outlook.com:BEN@MARINEDIESELSERVICE.COM

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 acceptable for

1711 WHITTIER AVE, SUITE B

Contact: BEN ALMAZAN

COSTA MESA, CA

T: (949)612-8180

Diagnosis

the time in service.

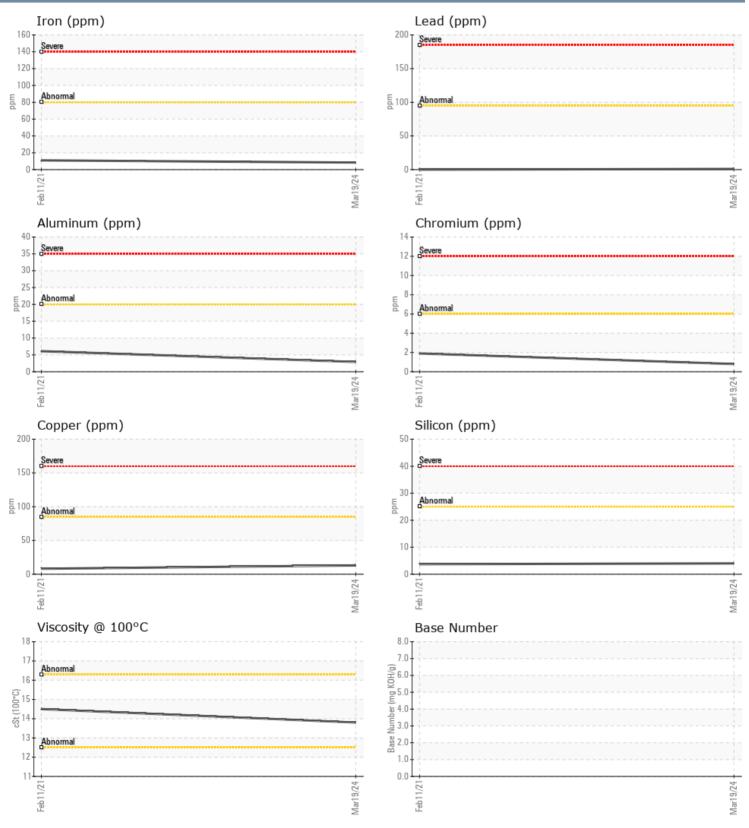
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OIL ANALYSIS REPORT



GRAPHS



Report Id: VP288530 [WUSCAR] 06123469 (Generated: 03/22/2024 13:16:34) Rev: 1

Contact/Location: BEN ALMAZAN - VP288530