OIL ANALYSIS REPORT

JOHAN - 44 TIARA SAM VOLVO PENTA A870284 - STARBOARD DIESEL ENGINE

Sample No: VPA056442

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION VPA056442 Sample Number Sample Date 23 Jun 2023 Machine Hours 254 **Oil Hours** 0 Oil Changed Changed NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 13.3 Base Number (BN) mg KOH/g 10.0 Oxidation (PA) % 61 CONTAMINATION Soot % % 0.2 % Nitration (PA) 47 Sulfation (PA) % 53 % Glycol NEG Fuel % <1.0 Silicon ppm 6 Sodium 2 ppm Potassium 3 ppm WEAR METALS 16 Iron ppm **4** Copper ppm Lead ppm <1 Tin ■ <1 ppm Aluminum ppm 2 Chromium **||** < 1 ppm Molybdenum 58 ppm Nickel ■ <1 ppm Titanium 0 🔲 ppm Silver ppm 0 🔲 Manganese ■ <1 ppm Vanadium <1 ppm **ADDITIVES** Calcium 1124 ppm Magnesium 973 ppm

MARINE DIESEL SERVICES INC

1711 WHITTIER AVE, SUITE B COSTA MESA, CA US 92627 Contact: BEN ALMAZAN marinedieselservices@outlook.com T: (949)612-8180 F: x:

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 acceptable for the time in service.

 Depot:
 VP288530

 Unique No:
 10546803

 Signed:
 Don Baldridge

 Report Date:
 07 Jul 2023

1275 🔲

1030

|| <1

■ <1

ppm

ppm

ppm

ppm

Zinc

Barium

Boron

Phosphorus

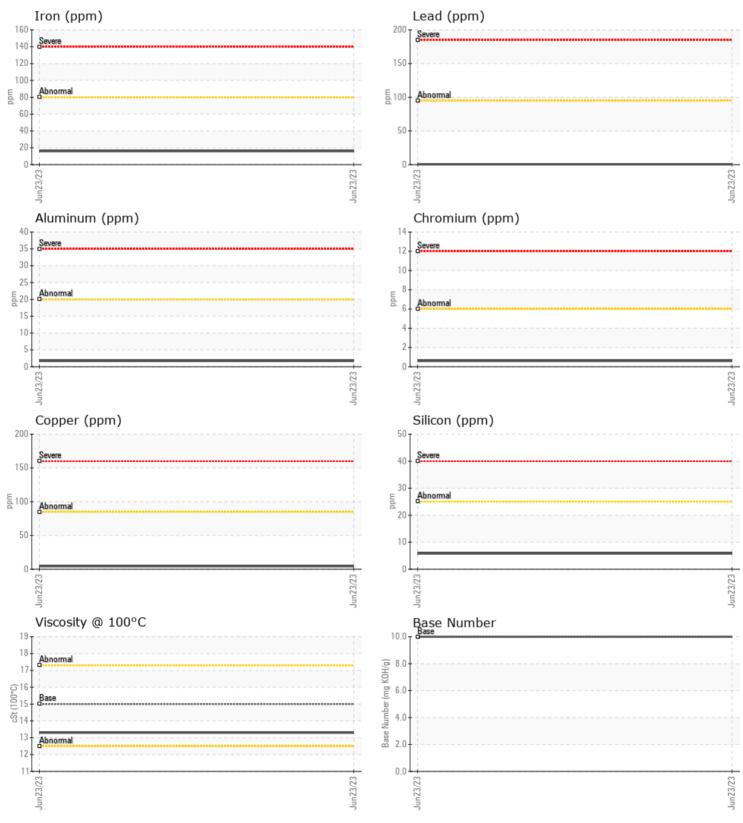
Contact/Location: BEN ALMAZAN - VP288530



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP288530 [WUSCAR] 05890993 (Generated: 07/07/2023 14:05:03) Rev: 1

Contact/Location: BEN ALMAZAN - VP288530