OIL ANALYSIS REPORT

VOLVO PENTA A535558 - STARBOARD DIESEL ENGINE

Sample No: VPA042131

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION VPA042131 Sample Number Sample Date 15 Sep 2023 Machine Hours 678 **Oil Hours** 120 Oil Changed Not Changd NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 13.8 Base Number (BN) mg KOH/g 9.0 Oxidation (PA) % 60 CONTAMINATION Soot % % 0.3 % Nitration (PA) 58 Sulfation (PA) % 54 % Glycol NEG Fuel % <1.0 Silicon ppm 9 Sodium 3 ppm Potassium 5 ppm WEAR METALS 14 Iron ppm 3 Copper ppm Lead ppm 2 Tin ■ <1 ppm Aluminum ppm 7 Chromium 2 ppm Molybdenum 47 ppm Nickel 1 ppm Titanium **||** <1 ppm Silver ppm 0 Manganese **||** <1 ppm Vanadium <1 ppm **ADDITIVES** Calcium 1574 ppm Magnesium 813 ppm Zinc ppm 1372 Phosphorus ppm 1097 Barium ppm 0 🔲 Boron ppm 28

VOLVO PENTA

SMART DIESEL SERVICE

102 NW 133RD AVE, UNIT 103 PLANTATION, FL US 33325 Contact: ANDRES GARMENDIA smartdieselservice@gmail.com T: (954)258-8100 F:

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:
 VPSMAPLA

 Unique No:
 10649622

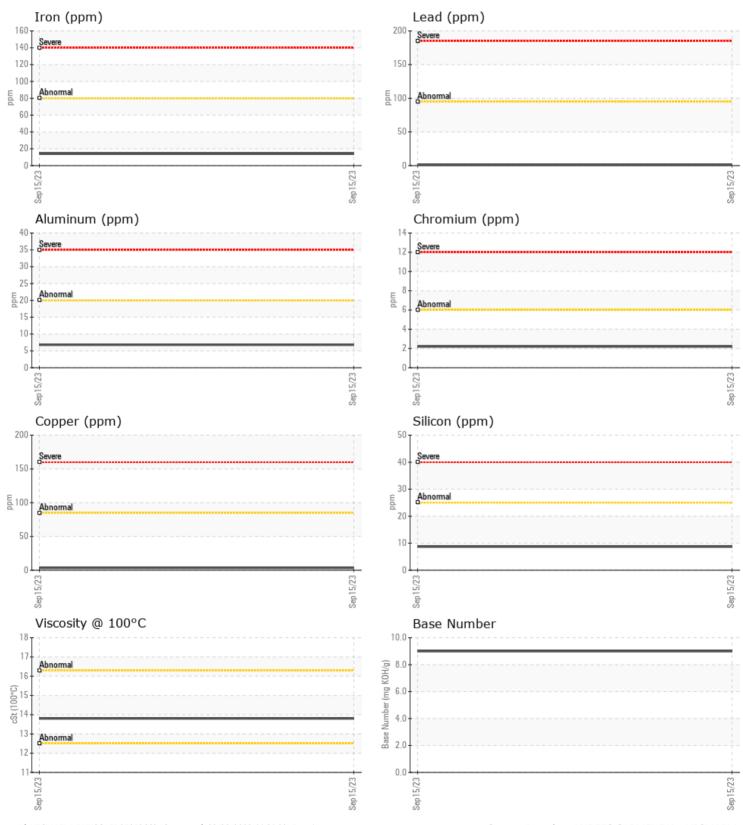
 Signed:
 Sean Felton

 Report Date:
 20 Sep 2023

OIL ANALYSIS REPORT



GRAPHS



Report Id: VPSMAPLA [WUSCAR] 05953663 (Generated: 09/20/2023 11:01:09) Rev: 1

Contact/Location: ANDRES GARMENDIA - VPSMAPLA