# **OIL ANALYSIS REPORT**

## ERIC FRANK VOLVO PENTA 2013902623 - CENTER - 3 - STARBOARD DIESEL ENGINE

Sample No: VPA019199

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

#### SAMPLE INFORMATION VPA019199 VPA046888 Sample Number Sample Date 20 Sep 2023 07 Apr 2022 Machine Hours 1155 364 **Oil Hours** 266 0 Oil Changed Not Changd Not Changd NORMAL Sample Status NORMAL **OIL CONDITION** Visc @ 100°C 13.6 16.0 cSt Base Number (BN) mg KOH/g 8.3 10.5 Oxidation (PA) % 60 60 CONTAMINATION 0.7 Soot % % 1.4 % Nitration (PA) 70 63 Sulfation (PA) % 60 60 % Glycol NEG NEG Fuel % <1.0 <1.0 Silicon ppm 4 10 Sodium 1 2 ppm Potassium ppm **||** <1 4 WEAR METALS Iron ppm 17 11 5 13 Copper ppm < 1 Lead ppm <1 Tin ■ <1 1 ppm Aluminum 4 0 ppm < 1 Chromium **|** <1 ppm Molybdenum 59 ppm 63 Nickel 0 0 ppm Titanium ■<1 0 ppm Silver ppm 0 < 1 Manganese ■ <1 < 1 ppm Vanadium 0 <1 ppm ADDITIVES Calcium 1223 1172 ppm Magnesium 1032 1070 ppm Zinc ppm 1323 1325 Phosphorus ppm 1040 1158 Barium ppm 0 0 Boron ppm 2 $\square 7$

#### CY MARINE LLC

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### 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:
 VPCYMPOM

 Unique No:
 10661548

 Signed:
 Doug Bogart

 Report Date:
 26 Sep 2023

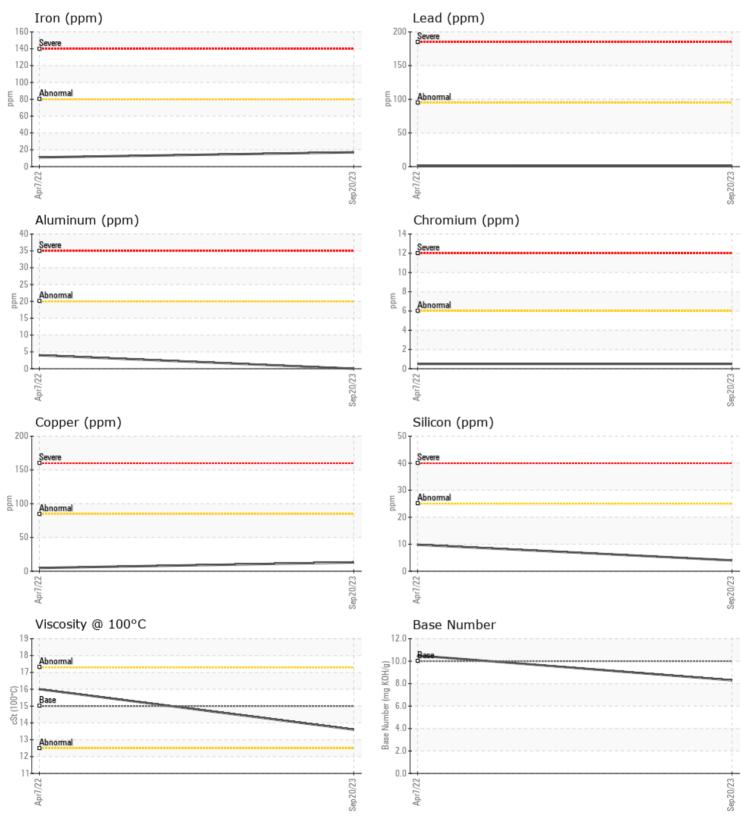
Contact/Location: CAMERON MEDINA - VPCYMPOM



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### GRAPHS



Report Id: VPCYMPOM [WUSCAR] 05960335 (Generated: 09/27/2023 18:14:47) Rev: 1

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