OIL ANALYSIS REPORT

KEVIN BARNES RAG TOP VOLVO PENTA 869598 (S/N 2006015352) - PORT DIESEL ENGINE

Sample No: VPA051940

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION VPA051940 VPA258947 Sample Number 09 Oct 2023 Sample Date 29 Jun 2020 Machine Hours 529 342 100 **Oil Hours** 0 Oil Changed Changed Changed NORMAL Sample Status NORMAL **OIL CONDITION** 13.8 Visc @ 100°C cSt 14.7 Base Number (BN) mg KOH/g 8.8 Oxidation (PA) % 61 76 CONTAMINATION 0.1 Soot % % 0.1 % Nitration (PA) 56 67 Sulfation (PA) % 58 62 % Glycol NEG NEG Fuel % <1.0 <1.0 Silicon ppm 4 3 Sodium ■<1 2 ppm Potassium ppm 2 6 WEAR METALS 12 Iron ppm 8 3 Copper 4 ppm < 1 Lead ppm 1 🔲 Tin ■ <1 < 1 ppm Aluminum ppm 22 1 < 1 Chromium 1 ppm Molybdenum 88 ppm 7 Nickel ■ <1 <1 ppm Titanium 0 🔲 0 ppm Silver ppm 0 0 Manganese **||** <1 < 1 ppm Vanadium 0 0 ppm **ADDITIVES** Calcium 1532 2452 ppm Magnesium 735 42 ppm 1142 Zinc ppm 931 Phosphorus ppm 762 1077 Barium ppm 0 🔲 0 Boron ppm 284 175

VOLVO PENTA

North Harbor Diesel Inc

720 30Th Street ANACORTES, WA US 98221 Contact: ROBBIN MURDOCK robbin@northharbordiesel.com T: (360)299-1904 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 suitable for further service.

 Depot:
 VP179089

 Unique No:
 10710524

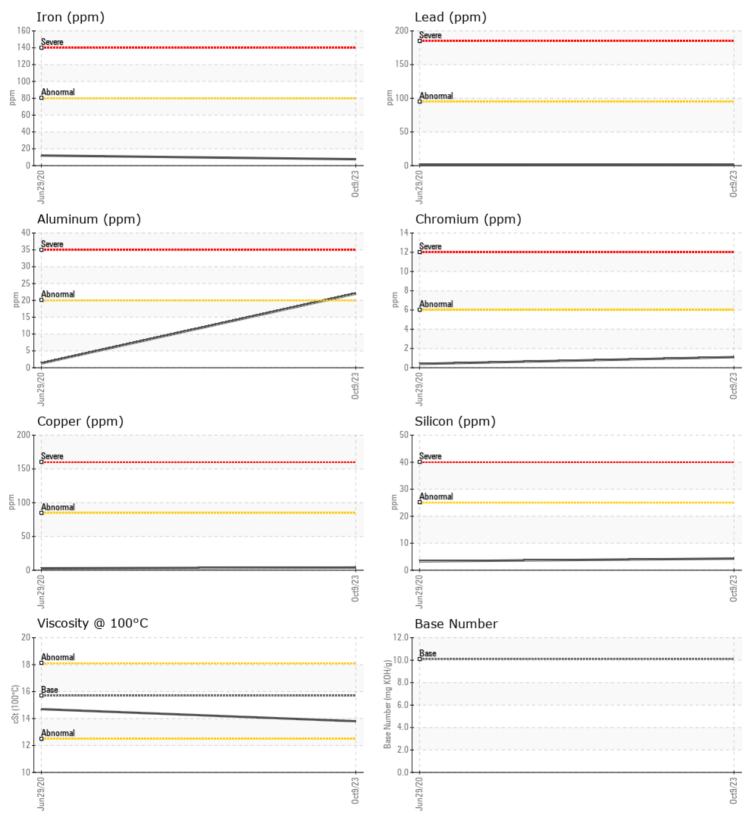
 Signed:
 Don Baldridge

 Report Date:
 26 Oct 2023

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP179089 [WUSCAR] 05987862 (Generated: 10/26/2023 10:45:16) Rev: 1

Contact/Location: ROBBIN MURDOCK - VP179089