## **OIL ANALYSIS REPORT**

### TIM CASE 23-2745 VOLVO PENTA 2013386461 - PORT DIESEL ENGINE

Sample No: VPA057480

Oil Type: VOLVO PENTA SAE 15W40

#### SAMPLE INFORMATION Sample Number VPA057480 VPA040730 20 Nov 2023 Sample Date 12 Sep 2022 Machine Hours 1655 1531 0 **Oil Hours** 0 Oil Changed Changed N/A NORMAL Sample Status NORMAL **OIL CONDITION** Visc @ 100°C cSt 13.8 13.4 Base Number (BN) mg KOH/g 7.4 10.9 Oxidation (PA) % 62 57 CONTAMINATION % NEG NFG Water % Soot % 0.3 0.2 Nitration (PA) % 51 46 % Sulfation (PA) 54 55 Glycol % NEG NEG Fuel % <1.0 <1.0 Silicon 2 4 ppm Sodium ppm **||** <1 1 Potassium 4 ppm <1 WEAR METALS Iron 2 3 ppm 0 <1 Copper ppm Lead 0 🔲 < 1 ppm Tin 0 <1 ppm Aluminum **||** < 1 < 1 ppm Chromium 0 < 1 ppm Molybdenum ppm 61 8 🔲 Nickel 0 🔲 < 1 ppm Titanium ppm 0 0 Silver 0 <1 ppm Manganese 0 🔲 < 1 ppm Vanadium 0 ppm 0 **ADDITIVES**

Calcium	ppm	2123	1036	 
Magnesium	ppm	<b>152</b>	881	 
Zinc	ppm	<b>1305</b>	1241	 
Phosphorus	ppm	<b>1040</b>	1033	 
Barium	ppm	0	0	 
Boron	ppm	<b>142</b>	2	 

**Outstanding Marine** 

PO Box 274 GALENA, MD US 21635 Contact: Ronda Bolinger rlwb@verizon.net T: 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.

Signed: Report Date:

Contact/Location: Ronda Bolinger - VP153685

Depot:

Unique No:

VP153685

10767882

Sean Felton

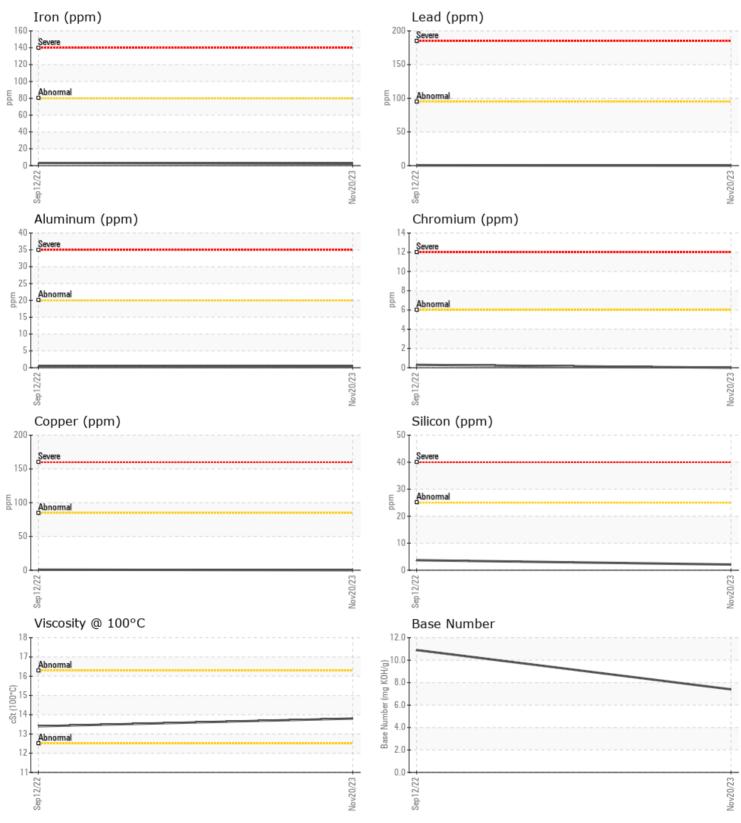
05 Dec 2023



# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VP153685 [WUSCAR] 06023382 (Generated: 12/05/2023 16:58:04) Rev: 1

Contact/Location: Ronda Bolinger - VP153685