## **OIL ANALYSIS REPORT**

### MANCHESTER 50 DRIVE R812467M VOLVO PENTA 7011481196 - VARIABLE SPEED - DIESEL ENGINE

Sample No: VPA056677

Oil Type: VOLVO PENTA SAE 15W40

#### SAMPLE INFORMATION VPA056677 VPA048406 Sample Number 15 Sep 2023 06 Oct 2022 Sample Date Machine Hours 382 266 **Oil Hours** 223 266 Oil Changed N/A N/A ATTENTION Sample Status ATTENTION **OIL CONDITION** T: F: Visc @ 100°C **11.9** cSt **11.9** Base Number (BN) mg KOH/g 10.7 10.8 Oxidation (PA) % 73 63 CONTAMINATION 0.2 Soot % % 0.1 % Nitration (PA) 48 65 Sulfation (PA) % 57 57 % Glycol NEG NEG Fuel % <1.0 1.9 Silicon ppm 15 46 Sodium 2 1 ppm Potassium 2 4 ppm WEAR METALS Iron ppm 4 16 **4** 30 Copper ppm < 1 Lead ppm <1 Tin ■ <1 2 ppm Aluminum 2 ppm ■ <1 < 1 Chromium 0 ppm Molybdenum 43 57 ppm Nickel 0 0 ppm Titanium 0 0 ppm 0 Silver 0 ppm Manganese **||** <1 3 ppm 0 0 Vanadium ppm **ADDITIVES** Calcium 1696 1219 ppm Magnesium 561 847 ppm Zinc ppm 987 1305 Phosphorus ppm 804 1084 Barium ppm 0 🔲 0 67 Boron 0 ppm

**VOLVO PENTA** 

Power Products Systems LLC 432 Warren Avenue, 432 Warren Ave. PORTLAND, ME US 04103 Contact: Cody Clemens cclemens@powerprodsys.com T.

#### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

 Depot:
 VP153549

 Unique No:
 10669747

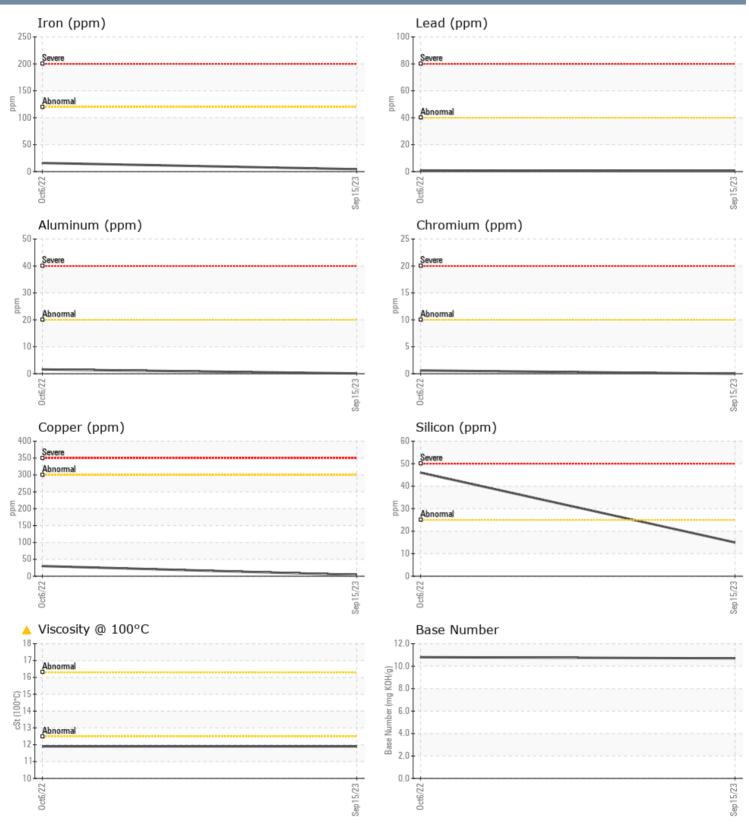
 Signed:
 Sean Felton

 Report Date:
 29 Sep 2023

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#### GRAPHS



Report Id: VP153549 [WUSCAR] 05963196 (Generated: 09/29/2023 11:56:35) Rev: 1

Contact/Location: Cody Clemens - VP153549