# **OIL ANALYSIS REPORT**

# SAMO SAMO VOLVO PENTA 20132091283 - CENTER LEFT DIESEL ENGINE

Sample No: VPA049956

### **Oil Type:** VOLVO VDS-4.5 Premium Motor Oil 15W40

#### SAMPLE INFORMATION VPA049956 VPA046336 Sample Number Sample Date 02 Nov 2023 05 Apr 2023 Machine Hours 303 202 202 **Oil Hours** 50 Oil Changed Changed Not Changd NORMAL Sample Status MARGINAL **OIL CONDITION** Visc @ 100°C 13.0 cSt 13.3 Base Number (BN) mg KOH/g 9.8 7.5 Oxidation (PA) % 53 33 CONTAMINATION 0.4 Soot % % 0.2 % Nitration (PA) 43 46 Sulfation (PA) % 50 42 % Glycol NEG NEG Fuel % <1.0 < 1.0 Silicon ppm 11 32 Sodium ■ <1 1 ppm Potassium **4** 49 ppm WEAR METALS 25 Iron ppm 6 Copper 6 23 ppm Lead ppm 0 < 1 Tin 0 3 ppm Aluminum **2**6 ppm 2 0 Chromium **|** <1 ppm Molybdenum 4 ppm 52 Nickel 0 0 ppm Titanium 0 🔲 0 ppm Silver ppm 0 0 Manganese 0 🔲 3 ppm Vanadium 0 0 ppm **ADDITIVES** Calcium 991 1128 ppm 898 Magnesium 987 ppm 🔳 1190 1323 Zinc ppm Phosphorus ppm 1017 1061 Barium ppm 5 0 3 Boron ppm 0

 Depot:
 VP694356

 Unique No:
 10729262

 Signed:
 Sean Felton

 Report Date:
 09 Nov 2023

Contact/Location: ASHANTI BURKE - VP694356

# VOLVO PENTA

Marine International Diesels Inc. 3600 HACIENDA BLVD UNIT G DAVIE, FL US 33314 Contact: ASHANTI BURKE aburke@midiflorida.com T: (954)761-1086 F: (954)761-1186

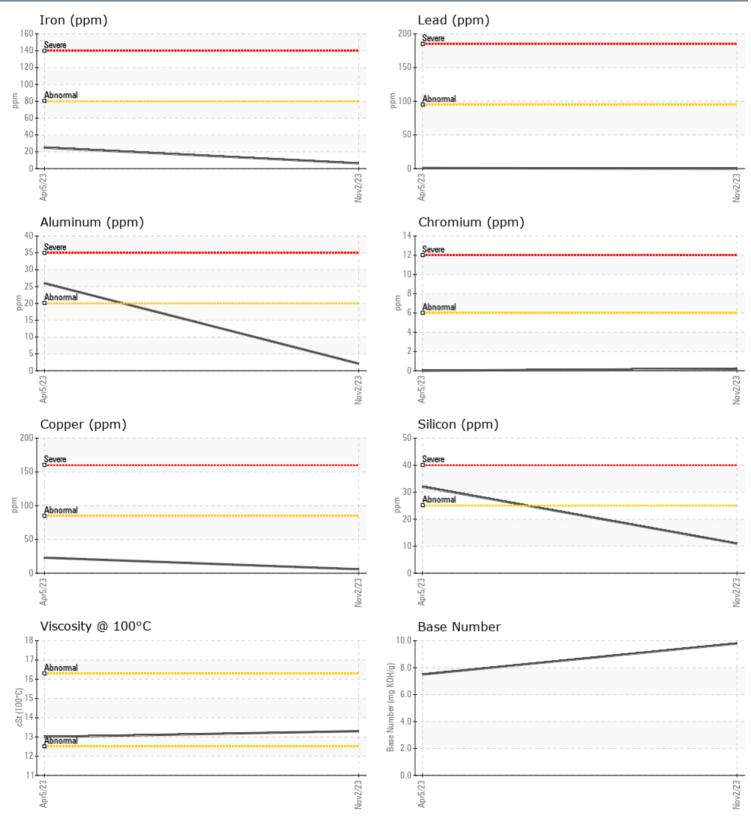
## Diagnosis

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.

# **OIL ANALYSIS REPORT**



### GRAPHS



Report Id: VP694356 [WUSCAR] 06000902 (Generated: 11/10/2023 11:55:28) Rev: 1

Contact/Location: ASHANTI BURKE - VP694356