# **OIL ANALYSIS REPORT**

## JAMES E CARLSON VOLVO PENTA A 1054025 - PORT DIESEL ENGINE

Sample No: VPA036994

Silver

Manganese

**ADDITIVES** 

Vanadium

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

Oil Type: SHELL ROTELLA T4 15W40

#### SAMPLE INFORMATION VPA036994 VPA044807 Sample Number Sample Date 10 Oct 2023 25 Oct 2022 Machine Hours 238 206 32 74 **Oil Hours** Oil Changed Changed N/A ATTENTION Sample Status ATTENTION **OIL CONDITION** Visc @ 100°C 14.6 cSt 14.6 Base Number (BN) mg KOH/g 7.6 7.6 Oxidation (PA) % 65 63 CONTAMINATION 0.6 Soot % % 0.4 % Nitration (PA) 60 69 Sulfation (PA) % 57 55 % Glycol NEG NEG Fuel % <1.0 <1.0 Silicon ppm 11 16 Sodium 4 4 ppm Potassium 12 14 ppm WEAR METALS **1**12 Iron ppm 24 14 Copper ppm Lead ppm 2 3 Tin ■ <1 2 ppm Aluminum 12 ppm 8 🔲 7 Chromium 6 ppm Molybdenum 10 ppm 3 Nickel 2 2 ppm Titanium 0 🔲 < 1 ppm

<1

< 1

0

2064

95

1175

974

**□**0 **□**114

#### **Point Judith Marina**

360 Gooseberry Road WAKEFIELD, RI US 02879 Contact: MATT ST. ANGELO service@pjmarina.com;canastasio@wearcheckusa.com T: (401)789-7189 F: (401)783-5350

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.Cylinder, crank, or cam shaft wear is indicated. All other 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.

Depot:	VP153811
Unique No:	10700626
Signed:	Don Baldridge
Report Date:	20 Oct 2023

0

■ <1

0

2165

41

1193

1018

0 🔲

168

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

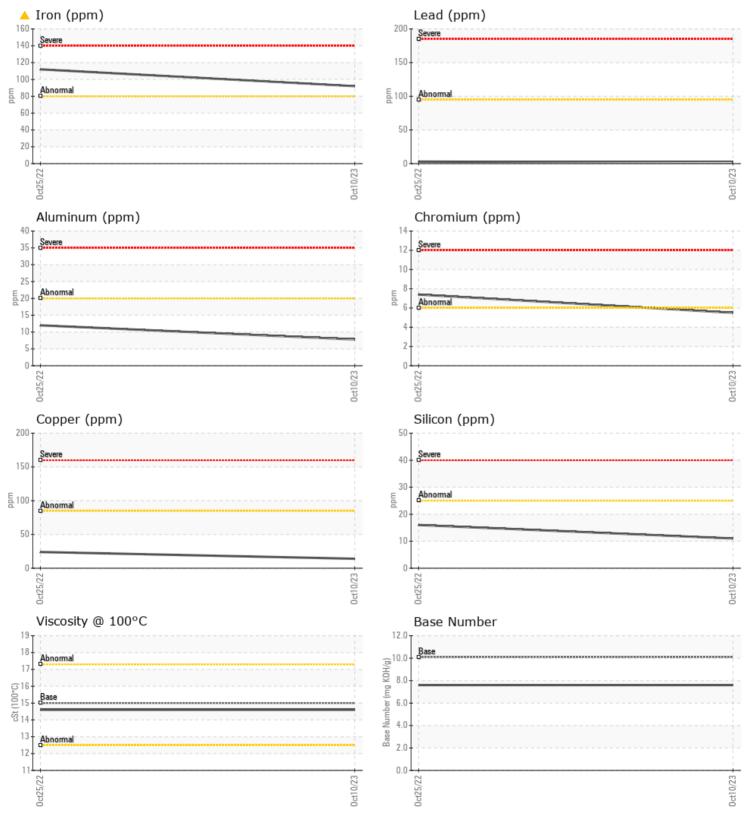
Contact/Location: MATT ST. ANGELO - VP153811



# **OIL ANALYSIS REPORT**



### GRAPHS



Report Id: VP153811 [WUSCAR] 05983331 (Generated: 10/27/2023 01:23:44) Rev: 1

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