## **OIL ANALYSIS REPORT**

#### PACIFIC RAIL SAM VOLVO PENTA 20132301754 - DIESEL ENGINE

Sample No: VPA060067

**Oil Type:** DIESEL ENGINE OIL SAF 15W40

#### SAMPLE INFORMATION VPA060067 Sample Number Endor Marine LLC - Coastal Marine - 152124 Sample Date 08 Mar 2024 Machine Hours 393 **Oil Hours** 0 Oil Changed Not Changd ABNORMAL Sample Status **OIL CONDITION** Visc @ 100°C **12.0** cSt Base Number (BN) mg KOH/g 11.1 Oxidation (PA) % 47 CONTAMINATION Water % NEG % Soot % 0.1 Nitration (PA) % 70 Sulfation (PA) % 44 Glycol % NEG Fuel % **4.8** Silicon 28 ppm Sodium ppm Potassium ppm WEAR METALS Iron 11 ppm Copper ppm 156 Lead ppm **||** < 1 Tin ■ <1 ppm Aluminum ppm 2 Chromium 0 ppm Molybdenum ppm 58 Nickel ■ <1 ppm Titanium ppm **4** Silver 2 ppm Manganese 3 ppm Vanadium ppm 0 **ADDITIVES** Calcium 1000 ppm Magnesium 426 ppm Zinc ppm 840 Phosphorus ppm 731 Barium 0 ppm Boron ppm 25 Depot:

4300 11th Ave. NW SEATTLE, WA US 98107 Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703 F: (206)784-8823

### Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



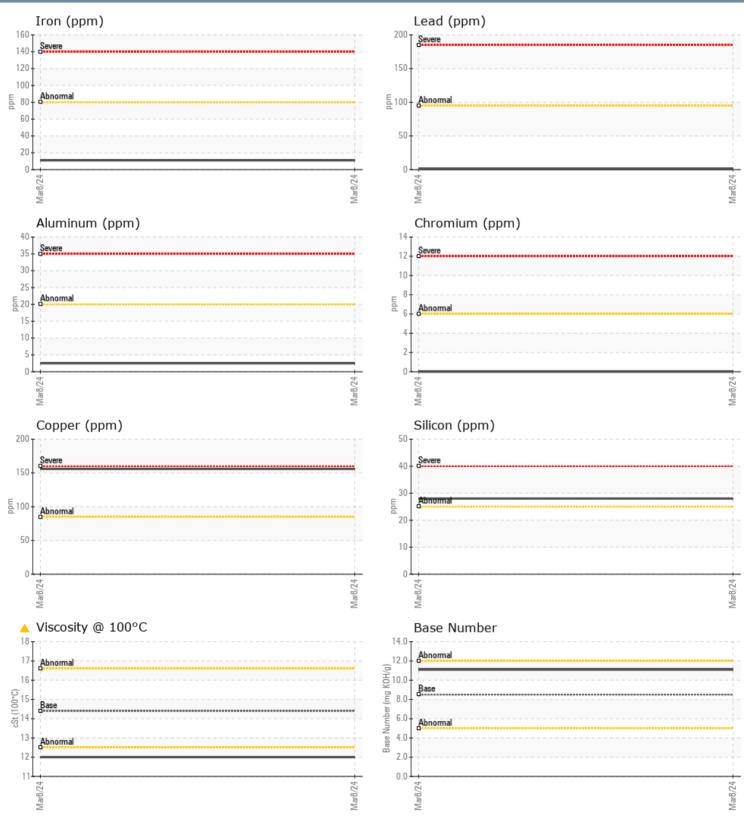
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VP794951

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### GRAPHS



Report Id: VP794951 [WUSCAR] 06118109 (Generated: 03/20/2024 09:14:24) Rev: 1

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