## **OIL ANALYSIS REPORT**

## VOLVO PENTA 2006041587 - STARBOARD DIESEL ENGINE

Sample No: VPA048750

Oil Type: DIESEL ENGINE OIL SAE 15W40

#### SAMPLE INFORMATION Sample Number VPA048750 12 Jul 2023 Sample Date Machine Hours 484 0 **Oil Hours** Oil Changed Not Changd NORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt 13.8 Base Number (BN) mg KOH/g 10.0 Oxidation (PA) % 61 CONTAMINATION Soot % % 0.1 % Nitration (PA) 52 Sulfation (PA) % 54 % NEG Glycol Fuel % <1.0 Silicon ppm 4 Sodium **||** <1 ppm Potassium ppm **4** WEAR METALS Iron ppm 3 2 Copper ppm **||** <1 Lead ppm Tin ■ <1 ppm Aluminum <1 ppm Chromium **||** < 1 ppm Molybdenum 52 ppm Nickel ■ <1 ppm Titanium **||** <1 ppm Silver ppm 0

## Vanadium ADDITIVES

Manganese

ppm

ppm

| Calcium    | ppm | 1334        | <br> |  |
|------------|-----|-------------|------|--|
| Magnesium  | ppm | <b>909</b>  | <br> |  |
| Zinc       | ppm | <b>1339</b> | <br> |  |
| Phosphorus | ppm | <b>1087</b> | <br> |  |
| Barium     | ppm | <b>1</b>    | <br> |  |
| Boron      | ppm | 28          | <br> |  |

#### Viking Boat Harbor Inc

1121 S. Islington Rd. CEDARVILLE, MI US 49719 Contact: Steve Honnila stevehonnila@gmail.com 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.

 Depot:
 VP155388

 Unique No:
 10562040

 Signed:
 Don Baldridge

 Report Date:
 19 Jul 2023

**||** <1

<1

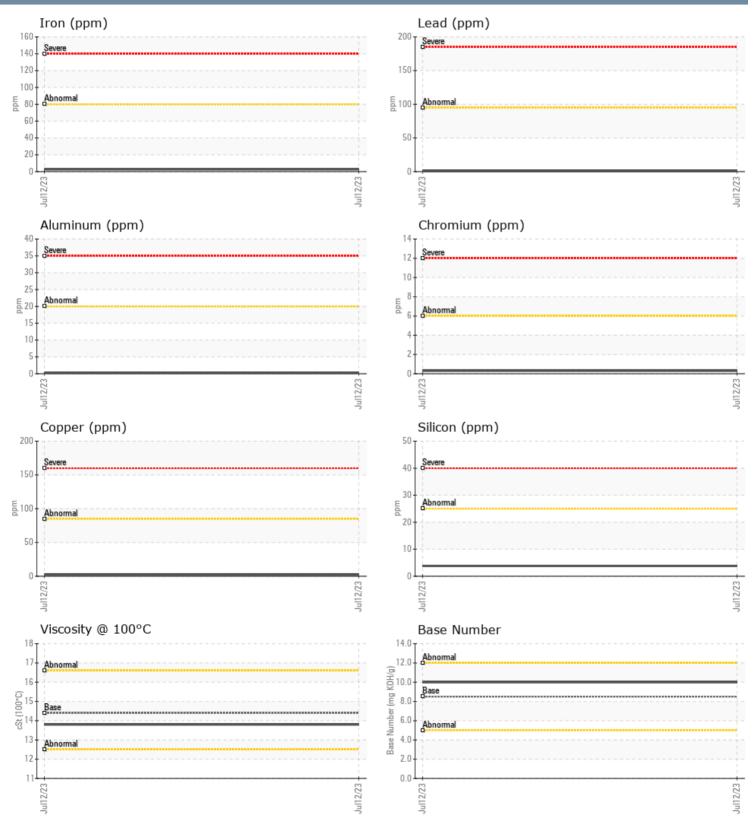
Contact/Location: Steve Honnila - VP155388



# **OIL ANALYSIS REPORT**



### GRAPHS



Report Id: VP155388 [WUSCAR] 05900684 (Generated: 07/20/2023 22:09:00) Rev: 1

Contact/Location: Steve Honnila - VP155388