OIL ANALYSIS REPORT

R16874 VOLVO PENTA A179692 - STARBOARD DIESEL ENGINE

Sample No: VPA055546

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

| Sample Number | | VPA055546 | | |
|-------------------|-------------------|-------------------|------|--|
| Sample Date | | 05 Feb 2024 | | |
| Machine Hours | | 1537 | | |
| Oil Hours | | 0 | | |
| Oil Changed | | Not Changd | | |
| Sample Status | | NORMAL | | |
| OIL CONDITION | | | | |
| Visc @ 100°C | cSt | 13.7 | | |
| Base Number (BN) | mg KOH/g | 9.9 | | |
| Oxidation (PA) | % | 55 | | |
| CONTAMINATION | | | | |
| Water | % | NEG | | |
| Soot % | % | 0 | | |
| Nitration (PA) | % | 40 | | |
| Sulfation (PA) | % | 51 | | |
| Glycol | % | NEG | | |
| Fuel | % | <1.0 | | |
| Silicon | ppm | 4 | | |
| Sodium | ppm | □ <1 | | |
| Potassium | ppm | 2 | | |
| WEAR METALS | 222 | 7 | | |
| | ppm | □ <1 | | |
| Copper Lead | ppm | ■<1 ■<1 | | |
| Tin | ppm ppm | | | |
| Aluminum | | 1 | | |
| Chromium | ppm ppm | 0 | | |
| Molybdenum | ppm | 6 0 | | |
| Nickel | ppm | ■ <1 | | |
| Titanium | ppm | 0 | | |
| Silver | ppm | ■ <1 | | |
| Manganese | ppm | ■ <1 | | |
| Vanadium | ppm | 0 | | |
| ADDITIVES | | | | |
| Calcium | ppm | 1 033 | | |
| | ppm | 1003 | | |
| | | 1359 | | |
| Magnesium | maa | 1000 | | |
| Magnesium Zinc | ppm ppm | | | |
| Magnesium | ppm ppm ppm | 1339 1121 0 | | |

VOLVO PENTA

Western Branch Diesel, Inc. - VP527273 3504 SHIPWRIGHT ST PORTSMOUTH, VA US 23703 Contact: GEORGE ROGIC grogic@wbdiesel.com T: E-

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:
 VP155396

 Unique No:
 10863240

 Signed:
 Doug Bogart

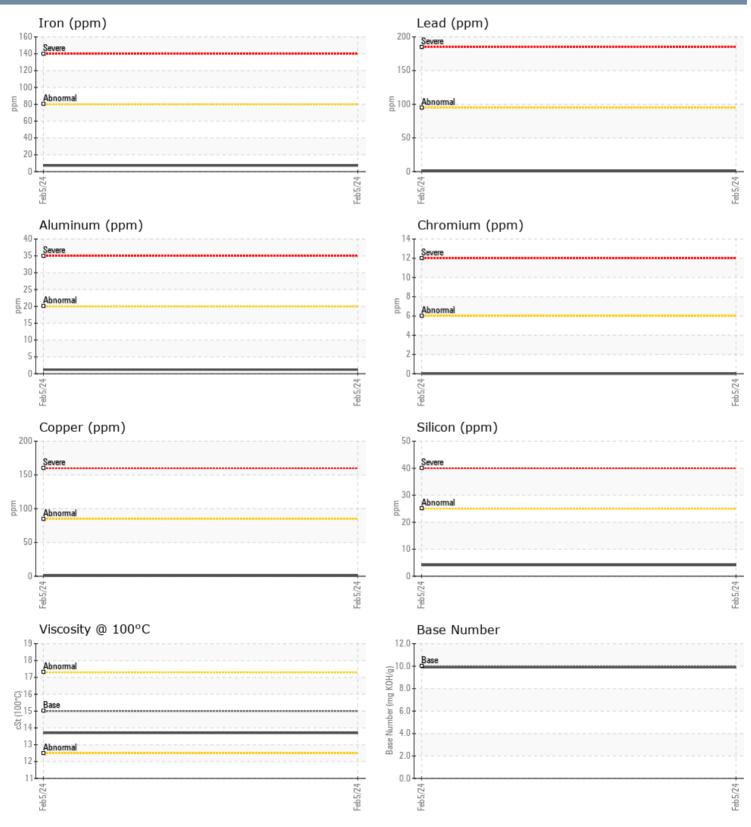
 Report Date:
 09 Feb 2024

Contact/Location: GEORGE ROGIC - VP155396

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GRAPHS



Report Id: VP155396 [WUSCAR] 06081149 (Generated: 02/09/2024 13:01:21) Rev: 1

Contact/Location: GEORGE ROGIC - VP155396