



DAVE HOLT PATRICK/502207-5250 VOLVO PENTA A657920 - PORT DIESEL ENGINE

Sample No: VPA062547

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

| SAMPLE INFORMAT | TION | | | |
|------------------|------|---------------|--------------|------|
| Sample Number | | VPA062547 | VPA055657 | |
| Sample Date | | 21 May 2024 | 07 Jul 2023 | |
| Machine Hours | | 467 | 419 | |
| Oil Hours | | 0 | 0 | |
| Oil Changed | | Changed | Changed | |
| Sample Status | | NORMAL | NORMAL | |
| OIL CONDITION | | | | |
| | _ | | | |
| Visc @ 100°C | cSt | 13.7 | □13.8 | |
| Base Number (BN) | | ■9.6 | 9.1 | |
| Oxidation (PA) | % | 59 | 55 | |
| CONTAMINATION | | | | |
| Water | % | NEG | NEG | |
| Soot % | % | ■0.1 | ■0.2 | |
| Nitration (PA) | % | 53 | 67 | |
| Sulfation (PA) | % | 53 | 52 | |
| Glycol | % | NEG | NEG | |
| Fuel | % | <1.0 | <1.0 | |
| Silicon | ppm | 6 | 4 | |
| Sodium | ppm | 1 | 2 | |
| Potassium | ppm | 2 | 6 | |
| WEAR METALS | | | | |
| Iron | ppm | 10 | 1 1 | |
| Copper | ppm | 5 | 9 | |
| Lead | ppm | 1 | 2 | |
| Tin | ppm | <1 | = <1 | |
| Aluminum | ppm | 2 | 2 | |
| Chromium | ppm | <1 | <1 | |
| Molybdenum | ppm | 54 | 19 | |
| Nickel | ppm | 1 | 2 | |
| Titanium | ppm | <u> </u> | <u> </u> | |
| Silver | ppm | = <1 | 0 | |
| Manganese | ppm | ■<1 | < | |
| Vanadium | ppm | <1 | <1 | |
| ADDITIVES | | | | |
| Calcium | ppm | 1106 | 1270 | |
| Magnesium | ppm | 915 | 797 | |
| Zinc | | 1215 | □ 962 | |
| | ppm | | | |
| Phosphorus | ppm | ■ 974 | □ 792 | |
| Barium | ppm | 0 | 0 | |
| Boron | ppm | 10 | 66 | |

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Diagnosis

F: (206)784-8823

No corrective action is recommended at this time. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. 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:VP794951Unique No:11045494Signed:Sean FeltonReport Date:28 May 2024

OIL ANALYSIS REPORT



