



NADINE URCIUOLI MAEFEETERS 2300476 VOLVO PENTA 5102326857 - CENTER DIESEL ENGINE

Sample No: VPA049572

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

| SAMPLE INFORMAT | LIUN | | | |
|---------------------|----------|-------------------|------|--|
| 2VIJILTT IMI OVIJIV | IION | | | |
| Sample Number | | VPA049572 | | |
| Sample Date | | 15 Sep 2023 | | |
| Machine Hours | | 0 | | |
| Oil Hours | | 0 | | |
| Oil Changed | | Changed | | |
| Sample Status | | NORMAL | | |
| | | | | |
| OIL CONDITION | | | | |
| Visc @ 100°C | cSt | 14.1 | | |
| Base Number (BN) | mg KOH/g | ■9.1 | | |
| Oxidation (PA) | % | 53 | | |
| | | | | |
| CONTAMINATION | | | | |
| Soot % | % | ■ 0.1 | | |
| Nitration (PA) | % | 38 | | |
| Sulfation (PA) | % | 48 | | |
| Glycol | % | NEG | | |
| Fuel | % | <1.0 | | |
| Silicon | ppm | 5 | | |
| Sodium | ppm | ■<1 | | |
| Potassium | ppm | 1 | | |
| WEAD METALS | | | | |
| WEAR METALS | | | | |
| Iron | ppm | ■ 3 | | |
| Copper | ppm | 6 | | |
| Lead | ppm | ■<1 | | |
| Tin | ppm | ■<1 | | |
| Aluminum | ppm | ■0 | | |
| Chromium | ppm | ■<1 | | |
| Molybdenum | ppm | 56 | | |
| Nickel | ppm | ■0 | | |
| Titanium | ppm | ■<1 | | |
| Silver | ppm | _ _ 0 | | |
| Manganese | ppm | - <1 | | |
| Vanadium | ppm | <1 | | |
| ADDITIVES | | | | |
| ADDITIVES | | | | |
| Calcium | ppm | 1025 | | |
| Magnesium | ppm | _ ■ 957 | | |
| Zinc | ppm | 1155 | | |
| Phosphorus | ppm | 923 | | |
| Barium | ppm | ■0 | | |
| Boron | ppm | □7 | | |
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Helmuts Marine Service

619 Canal Street SAN RAFAEL, CA US 94901-3545 Contact: NADINE URCIUOLI SERVICE@HELMUTSMARINE.COM

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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:VP152741Unique No:10661543Signed:Doug BogartReport Date:26 Sep 2023

OIL ANALYSIS REPORT



