



LEACH ONAN B100098209 - GENSET

Sample No: VPA036361

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

| SAMPLE INFORMAT | TION | | | |
|---------------------|----------|---------------|-------------|------|
| Sample Number | | VPA036361 | VPA031026 | |
| Sample Date | | 16 Nov 2023 | 16 Jan 2021 | |
| Machine Hours | | 1012 | 1012 | |
| Oil Hours | | 0 | 0 | |
| Oil Changed | | Changed | Changed | |
| Sample Status | | NORMAL | NORMAL | |
| Sample Status | | NORIVIAL | NORIVIAL | |
| OIL CONDITION | | | | |
| Visc @ 100°C | cSt | 14.0 | 13.3 | |
| Base Number (BN) | mg KOH/g | ■8.6 | | |
| Oxidation (PA) | % | 61 | 53 | |
| CONTAMINATION | | | | |
| | 0/ | NEC | NEC | |
| Water | % | NEG | NEG | |
| Soot % | % | ■ 0 | 0.1 | |
| Nitration (PA) | % | 43 | 47 | |
| Sulfation (PA) | % | 53 | 50 | |
| Glycol | % | NEG | NEG | |
| Fuel | % | <1.0 | <1.0 | |
| Silicon | ppm | 4 | 8 | |
| Sodium Potassium | ppm | 2 | □3 □10 | |
| POLASSIUITI | ppm | 7 | | |
| WEAR METALS | | | | |
| Iron | ppm | 2 | 4 | |
| Copper | ppm | ■<1 | - <1 | |
| Lead | ppm | 1 | 2 | |
| Tin | ppm | ■0 | 0 | |
| Aluminum | ppm | 1 | 2 | |
| Chromium | ppm | ■0 | <1 | |
| Molybdenum | ppm | 11 | ■ 58 | |
| Nickel | ppm | ■ 0 | <1 | |
| Titanium | ppm | <1 | <1 | |
| Silver | ppm | ■ <1 | 0 | |
| Manganese | ppm | 0 | □0 | |
| Vanadium | ppm | <1 | 0 | |
| ADDITIVES | | | | |
| Calcium | ppm | 1976 | □1163 | |
| Magnesium | ppm | ■ 193 | 1000 | |
| Zinc | ppm | 1249 | ■ 1135 | |
| Phosphorus | ppm | ■960 | □ 1084 | |
| Barium | ppm | ■0 | 0 | |
| Boron | ppm | 155 | 2 | |
| | | | | |

FULL KEEL MARINE SERVICES

ANNAPOLIS, MD US 21401 Contact: Service Manager FULLKEELMARINESERIVES@GMAIL.COM T: (410)507-3542 F:

Diagnosis

314 LEGION AVE

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:VP1298996Unique No:10753555Signed:Jonathan HesterReport Date:30 Nov 2023

OIL ANALYSIS REPORT



