



MATT BIRCHBY 502362 NORTHERN LIGHTS 6732-53750 - GENSET

Sample No: VPA059631

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

| Dil CONDITION CSt | | | | | |
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| Sample Number VPA059631 | SAMPLE INFORMAT | TION | | | |
| Sample Date 20 Sep 2023 | | | | | |
| Machine Hours | | | | | |
| Oil Changed Not Changd | • | | - | | |
| Not Changed Not Changed Sample Status NORMAL | | | | | |
| NORMAL | | | 20 | | |
| Dil CONDITION DIL CONDITIO | Oil Changed | | Not Changd | | |
| Visc @ 100°C | Sample Status | | NORMAL | | |
| Base Number (BN) mg KOH/g 8.5 | OIL CONDITION | | | | |
| Base Number (BN) mg KOH/g 8.5 | Visc @ 100°C | cSt | ■13.7 | | |
| CONTAMINATION Soot % | _ | ma KOH/a | _ | | |
| Soot % | Oxidation (PA) | | _ | | |
| Soot % | | | | | |
| Nitration (PA) | LONI AMINATION | | | | |
| Nitration (PA) | Soot % | % | 0.1 | | |
| Sulfation (PA) | Nitration (PA) | | | | |
| Silicon Silicon Silicon Silicon Sodium Sodium | , | | | | |
| Fuel % <1.0 Silicon ppm 5 Sodium ppm 2 Sodium ppm 3 Sodium ppm 3 | | | NEG | | |
| Solition | - | | | | |
| Sodium ppm 2 2 Potassium ppm 3 3 | | | | | |
| WEAR METALS Iron ppm <1 | | | | | |
| WEAR METALS Iron ppm <1 | | | _ | | |
| Iron | Totassiam | ррпп | | | |
| Copper | WEAR METALS | | | | |
| Lead | Iron | ppm | ■ <1 | | |
| Tin ppm 0 Aluminum ppm 0 | Copper | ppm | | | |
| Tin ppm 0 Aluminum ppm 0 | Lead | ppm | 0 | | |
| Aluminum ppm 0 | Tin | | ■ 0 | | |
| Chromium ppm | Aluminum | | ■ 0 | | |
| Molybdenum ppm | Chromium | | | | |
| Nickel ppm 0 <td>Molybdenum</td> <td></td> <td>_</td> <td> </td> <td></td> | Molybdenum | | _ | | |
| Titanium ppm 0 Silver ppm 0 Silver ppm 0 Silver ppm 0 Silver ppm 0 | Nickel | | O | | |
| Silver ppm 0 Manganese ppm <1 | Titanium | | _ | | |
| Manganese ppm Vanadium ppm 0 ADDITIVES Calcium ppm 1404 Magnesium ppm 732 Zinc ppm 863 Phosphorus ppm 727 Barium ppm 0 | Silver | | | | |
| Vanadium ppm 0 ADDITIVES Calcium ppm 1404 Magnesium ppm 732 Zinc ppm 863 Phosphorus ppm 727 Barium ppm 0 | | | _ | | |
| ADDITIVES Calcium ppm 1404 Magnesium ppm 732 Zinc ppm 863 Phosphorus ppm 727 Barium ppm 0 | Vanadium | | _ | | |
| Calcium ppm 1404 Magnesium ppm 732 Zinc ppm 863 Phosphorus ppm 727 Barium ppm 0 | ADDITIVES | | | | |
| Magnesium ppm 732 Zinc ppm 863 Phosphorus ppm 727 Barium ppm 0 | | | =440: | | |
| Zinc ppm 863 Phosphorus ppm 727 Barium ppm 0 | | | | | |
| Phosphorus ppm 727 Barium ppm 0 | _ | | | | |
| Barium ppm □0 | | | | | |
| | | | | | |
| Boron ppm 110 | | | | | |
| | Boron | ppm | 110 | | |

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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 acceptable for the time in service.

Depot:VP794951Unique No:10660146Signed:Sean FeltonReport Date:25 Sep 2023

OIL ANALYSIS REPORT



