



CONSTRUCTION EQUIPMENT

700466 GLE VOLVO EC380 314125 - DIESEL ENGINE



Sample No: VCP447338
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 700466 GLE



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP447338 | VCP431415 | VCP366136 | --- |
| Sample Date | 16 Apr 2024 | 07 Dec 2023 | 19 Sep 2022 | --- |
| Machine Hours | 4941 | 4377 | 2888 | --- |
| Oil Hours | 500 | 500 | 500 | --- |
| Oil Changed | Changed | Changed | Changed | --- |
| Sample Status | NORMAL | MARGINAL | ATTENTION | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--|--|--|-----|
| Visc @ 100°C | cSt | ■ 12.5 | ▲ 12.3 | ● 11.2 | --- |
| Base Number (BN) | mg KOH/g | ■ 7.1 | ■ 7.2 | ■ 11.1 | --- |
| Oxidation (PA) | % | 74 | 67 | 88 | --- |

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.



CONTAMINATION

| | | | | | |
|----------------|-----|---|--|--|-----|
| Water | % | NEG | NEG | NEG | --- |
| Soot % | % | ■ 0.1 | ■ 0.1 | ■ 0.1 | --- |
| Nitration (PA) | % | 88 | 78 | 73 | --- |
| Sulfation (PA) | % | 58 | 57 | 64 | --- |
| Glycol | % | NEG | NEG | NEG | --- |
| Fuel | % | <1.0 | <1.0 | ■ 0.5 | --- |
| Silicon | ppm | ■ 7 | ■ 4 | ■ 11 | --- |
| Sodium | ppm | ■ <1 | ■ 1 | ■ 3 | --- |
| Potassium | ppm | ■ 2 | ■ 2 | ■ 2 | --- |



WEAR METALS

| | | | | | |
|------------|-----|---|---|---|-----|
| Iron | ppm | ■ 8 | ■ 4 | ■ 15 | --- |
| Copper | ppm | ■ 2 | ■ 5 | ■ 8 | --- |
| Lead | ppm | ■ 2 | ■ <1 | ■ <1 | --- |
| Tin | ppm | ■ 1 | ■ <1 | ■ <1 | --- |
| Aluminum | ppm | ■ 2 | ■ 2 | ■ 3 | --- |
| Chromium | ppm | ■ <1 | ■ 0 | ■ <1 | --- |
| Molybdenum | ppm | ■ 62 | ■ 62 | ■ 37 | --- |
| Nickel | ppm | ■ 3 | ■ <1 | ■ 0 | --- |
| Titanium | ppm | 1 | <1 | <1 | --- |
| Silver | ppm | ■ 0 | ■ 0 | ■ 0 | --- |
| Manganese | ppm | ■ <1 | ■ <1 | ■ 2 | --- |
| Vanadium | ppm | <1 | 0 | <1 | --- |



ADDITIVES

| | | | | | |
|------------|-----|--|---|---|-----|
| Calcium | ppm | ■ 1132 | ■ 1091 | ■ 1825 | --- |
| Magnesium | ppm | ■ 929 | ■ 921 | ■ 406 | --- |
| Zinc | ppm | ■ 1217 | ■ 1276 | ■ 1030 | --- |
| Phosphorus | ppm | ■ 988 | ■ 1033 | ■ 864 | --- |
| Barium | ppm | ■ 2 | ■ <1 | ■ 0 | --- |
| Boron | ppm | ■ 2 | ■ 10 | ■ 41 | --- |

Depot: VOLVO2990
Unique No: 10996886
Signed: Sean Felton
Report Date: 29 Apr 2024



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GRAPHS

