



CONSTRUCTION EQUIPMENT

SWO-069917 APAC AL VOLVO L150H 5908 - DIESEL ENGINE



Sample No: VCP444473
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-069917 APAC AL



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP444473 | VCP297126 | VCP292214 | VCP285503 |
| Sample Date | 22 Feb 2024 | 05 Feb 2021 | 18 Nov 2020 | 24 Aug 2020 |
| Machine Hours | 7119 | 4099 | 3253 | 3140 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | ABNORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 13.3 | 13.4 | 13.0 | 13.1 |
| Base Number (BN) | mg KOH/g | 6.4 | --- | --- | --- |
| Oxidation (PA) | % | 53 | 70 | 52 | 56 |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Water | % | NEG | NEG | NEG | NEG |
| Soot % | % | 0.2 | 0.1 | 0.1 | 0.2 |
| Nitration (PA) | % | 69 | 61 | 68 | 69 |
| Sulfation (PA) | % | 52 | 60 | 55 | 56 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 4 | 0 | 5 | 5 |
| Sodium | ppm | 1 | 2 | 3 | 1 |
| Potassium | ppm | 0 | 1 | 2 | 2 |



WEAR METALS

| | | | | | |
|------------|-----|-----------|----|----|----|
| Iron | ppm | 2 | 7 | 5 | 5 |
| Copper | ppm | 1 | 4 | 18 | 89 |
| Lead | ppm | 0 | <1 | 0 | <1 |
| Tin | ppm | 0 | <1 | 0 | <1 |
| Aluminum | ppm | 2 | <1 | 1 | 0 |
| Chromium | ppm | 0 | <1 | 0 | <1 |
| Molybdenum | ppm | 84 | 25 | 5 | 8 |
| Nickel | ppm | 0 | <1 | 0 | 0 |
| Titanium | ppm | 0 | <1 | <1 | <1 |
| Silver | ppm | 0 | <1 | 0 | <1 |
| Manganese | ppm | 0 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1946 | 1596 | 1419 | 1302 |
| Magnesium | ppm | 96 | 553 | 782 | 664 |
| Zinc | ppm | 1180 | 972 | 818 | 826 |
| Phosphorus | ppm | 1022 | 871 | 745 | 709 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 104 | 60 | 53 | 57 |

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: VOLVO8528
Unique No: 10899513
Signed: Jonathan Hester
Report Date: 28 Feb 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

