



CONSTRUCTION EQUIPMENT

A11833 VOLVO L120H 632707 - DIESEL ENGINE



Sample No: VCP442536
Oil Type: MOBIL 15W40
Job No: A11833



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP442536 | VCP416457 | VCP407467 | VCP363734 |
| Sample Date | 04 Jan 2024 | 04 Aug 2023 | 21 Apr 2023 | 09 Sep 2022 |
| Machine Hours | 4510 | 4040 | 3715 | 3445 |
| Oil Hours | 250 | 0 | 250 | 250 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.8 | 13.4 | 13.3 | 13.3 |
| Base Number (BN) | mg KOH/g | 6.3 | 7.1 | 9.1 | 11.7 |
| Oxidation (PA) | % | 57 | 39 | 57 | 88 |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Water | % | NEG | NEG | NEG | NEG |
| Soot % | % | 0.3 | 0.2 | 0.2 | 0.4 |
| Nitration (PA) | % | 59 | 53 | 53 | 66 |
| Sulfation (PA) | % | 54 | 44 | 51 | 66 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 8 | 5 | 5 | 4 |
| Sodium | ppm | <1 | <1 | <1 | 4 |
| Potassium | ppm | 2 | 2 | 0 | 3 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 10 | 9 | 8 | 10 |
| Copper | ppm | 3 | 2 | 2 | 5 |
| Lead | ppm | <1 | <1 | 0 | 2 |
| Tin | ppm | 1 | <1 | 0 | 2 |
| Aluminum | ppm | 5 | 3 | 3 | 2 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 61 | 15 | 31 | 41 |
| Nickel | ppm | <1 | 0 | 0 | <1 |
| Titanium | ppm | 0 | <1 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | <1 | 0 | <1 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1416 | 2176 | 1592 | 1604 |
| Magnesium | ppm | 316 | 173 | 431 | 499 |
| Zinc | ppm | 1158 | 1166 | 1046 | 1110 |
| Phosphorus | ppm | 958 | 907 | 830 | 884 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 209 | 8 | 23 | 50 |

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: JAAPHI
Unique No: 10836332
Signed: Wes Davis
Report Date: 19 Jan 2024



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GRAPHS

