



CONSTRUCTION EQUIPMENT

W02007585 VOLVO L70H 624465 - DIESEL ENGINE



Sample No: VCP416121
Oil Type: MOBIL 15W40
Job No: W02007585



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP416121 | VCP419398 | VCP397795 | VCP319174 |
| Sample Date | 26 Sep 2023 | 28 Jun 2023 | 14 Feb 2023 | 27 Jul 2022 |
| Machine Hours | 2477 | 2154 | 1539 | 1004 |
| Oil Hours | 500 | 500 | 500 | 500 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | ATTENTION |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|--------|
| Visc @ 100°C | cSt | 13.4 | 13.1 | 13.0 | ▲ 12.2 |
| Base Number (BN) | mg KOH/g | 8.6 | 9.0 | 9.4 | 11.0 |
| Oxidation (PA) | % | 60 | 65 | 63 | 82 |

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.



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Soot % | % | 0.1 | 0.1 | 0.1 | 0.1 |
| Nitration (PA) | % | 50 | 63 | 56 | 63 |
| Sulfation (PA) | % | 59 | 61 | 53 | 63 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 6 | 8 | 6 | 8 |
| Sodium | ppm | 2 | <1 | 1 | 1 |
| Potassium | ppm | 0 | 2 | 1 | 1 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|----|----|
| Iron | ppm | 4 | 8 | 9 | 4 |
| Copper | ppm | <1 | 1 | 1 | 2 |
| Lead | ppm | 0 | 0 | 0 | <1 |
| Tin | ppm | <1 | <1 | 1 | <1 |
| Aluminum | ppm | 3 | 5 | 2 | 5 |
| Chromium | ppm | <1 | 1 | 1 | 1 |
| Molybdenum | ppm | 118 | 111 | 57 | 43 |
| Nickel | ppm | <1 | 0 | 0 | 0 |
| Titanium | ppm | <1 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1430 | 1551 | 1255 | 1719 |
| Magnesium | ppm | 582 | 716 | 788 | 449 |
| Zinc | ppm | 785 | 953 | 1178 | 1048 |
| Phosphorus | ppm | 662 | 774 | 994 | 875 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 322 | 318 | 21 | 74 |

Depot: VOLVO0002
Unique No: 10696512
Signed: Don Baldrige
Report Date: 17 Oct 2023



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VOLVO GRAPHS

