



CONSTRUCTION EQUIPMENT

SWA445190 LEHIGH CEM VOLVO L70H 623719 - DIESEL ENGINE



Sample No: VCP429646
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA445190 LEHIGH CEM



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP429646 | VCP363795 | VCP381233 | VCP337353 |
| Sample Date | 03 Jan 2024 | 06 Dec 2022 | 16 Nov 2022 | 30 Aug 2021 |
| Machine Hours | 3502 | 2788 | 2741 | 1672 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Not Changd | N/A |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 14.7 | 14.0 | 14.0 | 13.3 |
| Base Number (BN) | mg KOH/g | 9.7 | 11.3 | 11.6 | --- |
| Oxidation (PA) | % | 56 | 61 | 60 | 79 |

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 | NEG |
| Soot % | % | 0.4 | 0.4 | 0.2 | 0.4 |
| Nitration (PA) | % | 64 | 63 | 58 | 64 |
| Sulfation (PA) | % | 52 | 57 | 55 | 62 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 6 | 6 | 5 | 9 |
| Sodium | ppm | <1 | <1 | 0 | <1 |
| Potassium | ppm | 1 | <1 | 2 | <1 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 10 | 8 | 7 | 23 |
| Copper | ppm | <1 | <1 | <1 | 2 |
| Lead | ppm | <1 | <1 | 0 | <1 |
| Tin | ppm | <1 | <1 | <1 | <1 |
| Aluminum | ppm | 14 | 7 | 5 | 12 |
| Chromium | ppm | <1 | <1 | <1 | 2 |
| Molybdenum | ppm | 42 | 52 | 56 | 37 |
| Nickel | ppm | 0 | 0 | 0 | <1 |
| Titanium | ppm | 0 | 0 | 0 | <1 |
| Silver | ppm | 0 | 0 | 0 | <1 |
| Manganese | ppm | 0 | <1 | <1 | 1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1416 | 1466 | 1503 | 2010 |
| Magnesium | ppm | 757 | 856 | 862 | 529 |
| Zinc | ppm | 1161 | 1220 | 1242 | 1148 |
| Phosphorus | ppm | 873 | 1002 | 1051 | 1011 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 0 | 2 | 1 | 41 |

Depot: VOLVO0095
Unique No: 10829133
Signed: Wes Davis
Report Date: 12 Jan 2024



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GRAPHS

