



CONSTRUCTION EQUIPMENT

S730 VOLVO L70H 623339 - DIESEL ENGINE



Sample No: VCP424190
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S730



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP424190 | VCP371210 | VCP293678 | VCP234446 |
| Sample Date | 30 Sep 2023 | 11 Mar 2023 | 12 Dec 2020 | 15 May 2019 |
| Machine Hours | 8740 | 7850 | 4152 | 1416 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Not Changd | Not Changd |
| Sample Status | NORMAL | NORMAL | ABNORMAL | NORMAL |

SIMS METAL
 130 NORTH 12TH ST
 SACRAMENTO, CA
 US 95814
 Contact: EVERT

OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 13.4 | 13.7 | 15.6 | 13.3 |
| Base Number (BN) | mg KOH/g | 9.0 | 10.4 | --- | --- |
| Oxidation (PA) | % | 88 | 87 | 95 | 81 |

T: (916)769-7864
 F:

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

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Soot % | % | 0.5 | 0.4 | 1.5 | 0.4 |
| Nitration (PA) | % | 79 | 77 | 111 | 56 |
| Sulfation (PA) | % | 61 | 63 | 76 | 60 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 7 | 7 | 6 | 5 |
| Sodium | ppm | 2 | 1 | 3 | 2 |
| Potassium | ppm | 0 | <1 | 0 | <1 |

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|------|----|
| Iron | ppm | 8 | 12 | 40 | 11 |
| Copper | ppm | 0 | 1 | 2 | 1 |
| Lead | ppm | 0 | <1 | 1 | 0 |
| Tin | ppm | <1 | <1 | 0 | <1 |
| Aluminum | ppm | 18 | 22 | ▲ 41 | 18 |
| Chromium | ppm | <1 | 1 | 3 | 2 |
| Molybdenum | ppm | 41 | 44 | 48 | 37 |
| Nickel | ppm | 0 | 0 | 1 | <1 |
| Titanium | ppm | 0 | 0 | 14 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | 1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|--------------|------|------|------|
| Calcium | ppm | 1702 | 1772 | 1690 | 1550 |
| Magnesium | ppm | 539 | 501 | 786 | 453 |
| Zinc | ppm | 1207 | 1244 | 859 | 802 |
| Phosphorus | ppm | 1003 | 1058 | 737 | 637 |
| Barium | ppm | <1 | 0 | 0 | 0 |
| Boron | ppm | 25 | 37 | 32 | 31 |

Depot: SIMSACCA
Unique No: 10699468
Signed: Wes Davis
Report Date: 18 Oct 2023



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GRAPHS

