



CONSTRUCTION EQUIPMENT

2023-1009605 VOLVO L260H 81 (S/N 1171) - DIESEL ENGINE



Sample No: VCP405449
Oil Type: SHELL ROTELLA T 15W40
Job No: 2023-1009605



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP405449 | VCP396284 | VCP331125 | VCP331130 |
| Sample Date | 21 Jul 2023 | 08 Feb 2023 | 29 Aug 2022 | 07 Jul 2022 |
| Machine Hours | 10700 | 10700 | 9605 | 0 |
| Oil Hours | 500 | 0 | 0 | 600 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | ATTENTION | NORMAL | ATTENTION |

J.M. HUBER
 10322 HWY 53 E
 MARBLE HILL, GA
 US 30148
 Contact: GEORGE GIBSON
 george.gibson@huber.com
 T: (770)893-7602
 F:



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.3 | 11.6 | 12.3 | 11.8 |
| Base Number (BN) | mg KOH/g | 6.1 | 3.9 | 7.4 | 5.1 |
| Oxidation (PA) | % | 62 | 67 | 61 | 68 |

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 % | % | 0.3 | 0.4 | 0.2 | 0.4 |
| Nitration (PA) | % | 69 | 73 | 64 | 75 |
| Sulfation (PA) | % | 57 | 65 | 57 | 68 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | 1.2 | <1.0 | <1.0 |
| Silicon | ppm | 5 | 6 | 4 | 4 |
| Sodium | ppm | 3 | 4 | 2 | 5 |
| Potassium | ppm | 3 | 2 | 2 | 1 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 12 | 10 | 5 | 10 |
| Copper | ppm | 6 | 2 | 2 | 2 |
| Lead | ppm | <1 | 3 | <1 | 2 |
| Tin | ppm | <1 | <1 | <1 | <1 |
| Aluminum | ppm | 2 | 1 | 2 | 1 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 56 | 69 | 46 | 39 |
| 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 | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1710 | 1743 | 1608 | 1704 |
| Magnesium | ppm | 268 | 161 | 288 | 291 |
| Zinc | ppm | 1101 | 985 | 1114 | 1037 |
| Phosphorus | ppm | 915 | 805 | 942 | 859 |
| Barium | ppm | 3 | 0 | 0 | 0 |
| Boron | ppm | 41 | 14 | 85 | 35 |

Depot: JMHMAR
Unique No: 10781130
Signed: Jonathan Hester
Report Date: 13 Dec 2023



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GRAPHS

