



CONSTRUCTION EQUIPMENT

8-384238 VOLVO EC160E 314173 - DIESEL ENGINE



Sample No: VCP394721
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 8-384238



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP394721 | VCP352040 | VCP347467 | --- |
| Sample Date | 24 Nov 2023 | 01 Nov 2022 | 04 Feb 2022 | --- |
| Machine Hours | 1655 | 993 | 530 | --- |
| Oil Hours | 0 | 993 | 0 | --- |
| Oil Changed | Changed | Changed | Changed | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |

STRONGCO EQUIPMENT INC.
1640 ENTERPRISE ROAD
MISSISSAUGA, ON
CA L4W 4L4
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OIL CONDITION

| | | | | | |
|----------------|-----|-------------|------|------|-----|
| Visc @ 100°C | cSt | 12.8 | 12.5 | 13.2 | --- |
| Oxidation (PA) | % | 88 | 86 | 52 | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|-----|
| Water | % | NEG | NEG | NEG | --- |
| Soot % | % | 0.2 | 0 | 0 | --- |
| Nitration (PA) | % | 73 | 68 | 61 | --- |
| Sulfation (PA) | % | 63 | 65 | 56 | --- |
| Glycol | % | NEG | NEG | NEG | --- |
| Fuel | % | <1.0 | <1.0 | <1.0 | --- |
| Silicon | ppm | 10 | 11 | 22 | --- |
| Sodium | ppm | 3 | 3 | 4 | --- |
| Potassium | ppm | <1 | <1 | 3 | --- |

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 condition of the oil is acceptable for the time in service.

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|-----|
| Iron | ppm | 33 | 24 | 44 | --- |
| Copper | ppm | 4 | 4 | 11 | --- |
| Lead | ppm | <1 | <1 | 1 | --- |
| Tin | ppm | <1 | 1 | 2 | --- |
| Aluminum | ppm | 13 | 13 | 33 | --- |
| Chromium | ppm | 2 | 3 | 5 | --- |
| Molybdenum | ppm | 41 | 36 | 5 | --- |
| Nickel | ppm | 1 | 2 | 6 | --- |
| Titanium | ppm | 0 | <1 | 0 | --- |
| Silver | ppm | <1 | 0 | 0 | --- |
| Manganese | ppm | <1 | 1 | 4 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------------|------|------|-----|
| Calcium | ppm | 1775 | 1742 | 2089 | --- |
| Magnesium | ppm | 506 | 458 | 113 | --- |
| Zinc | ppm | 1123 | 1063 | 993 | --- |
| Phosphorus | ppm | 963 | 973 | 904 | --- |
| Barium | ppm | <1 | 0 | 0 | --- |
| Boron | ppm | 29 | 33 | 9 | --- |

Depot: SHEMIS
Unique No: 5684898
Signed: Kevin Marson
Report Date: 30 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

