



CONSTRUCTION EQUIPMENT

383636 VOLVO L60F 71471 - DIESEL ENGINE



Sample No: VCP380037
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 383636



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP380037 | VCP213969 | VCP175536 | --- |
| Sample Date | 07 Nov 2023 | 02 May 2018 | 25 Jan 2017 | --- |
| Machine Hours | 4493 | 3008 | 2522 | --- |
| Oil Hours | 0 | 500 | 500 | --- |
| Oil Changed | Changed | Changed | Changed | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |

STRONGCO EQUIP (AB)
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 CA T4S 2L4
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OIL CONDITION

| | | | | | |
|----------------|-----|-------------|------|------|-----|
| Visc @ 100°C | cSt | 14.1 | 14.3 | 14.1 | --- |
| Oxidation (PA) | % | 58 | 65 | 63 | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|-----|
| Soot % | % | 0.2 | 0.3 | 0.1 | --- |
| Nitration (PA) | % | 73 | 68 | 66 | --- |
| Sulfation (PA) | % | 53 | 54 | 58 | --- |
| Glycol | % | NEG | NEG | NEG | --- |
| Fuel | % | <1.0 | <1.0 | <1.0 | --- |
| Silicon | ppm | 4 | 7 | 7 | --- |
| Sodium | ppm | 3 | 8 | 6 | --- |
| Potassium | ppm | 0 | 0 | 0 | --- |

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 | 9 | 16 | 7 | --- |
| Copper | ppm | <1 | 1 | <1 | --- |
| Lead | ppm | <1 | 0 | 0 | --- |
| Tin | ppm | 0 | <1 | <1 | --- |
| Aluminum | ppm | 3 | 2 | 2 | --- |
| Chromium | ppm | 0 | <1 | <1 | --- |
| Molybdenum | ppm | 85 | 52 | 46 | --- |
| Nickel | ppm | 0 | 0 | 0 | --- |
| Titanium | ppm | 0 | <1 | 0 | --- |
| Silver | ppm | <1 | 0 | 0 | --- |
| Manganese | ppm | 0 | <1 | <1 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------------|------|------|-----|
| Calcium | ppm | 2217 | 1410 | 1309 | --- |
| Magnesium | ppm | 67 | 853 | 817 | --- |
| Zinc | ppm | 1193 | 1148 | 1084 | --- |
| Phosphorus | ppm | 1018 | 971 | 967 | --- |
| Barium | ppm | <1 | 0 | 0 | --- |
| Boron | ppm | 58 | 49 | 53 | --- |

Depot: VOLVO9652
Unique No: 5671949
Signed: Wes Davis
Report Date: 08 Nov 2023



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GRAPHS

