



CONSTRUCTION EQUIPMENT

607957 VOLVO EC480 315369 - DIESEL ENGINE



Sample No: VCP440286
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 607957



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP440286 | --- | --- | --- |
| Sample Date | 26 Sep 2023 | --- | --- | --- |
| Machine Hours | 595 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | ▲ 7.66 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 5.0 | --- | --- | --- |
| Oxidation (PA) | % | 73 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | ■ 0.1 | --- | --- | --- |
| Nitration (PA) | % | 85 | --- | --- | --- |
| Sulfation (PA) | % | 59 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | ■ 0.9 | --- | --- | --- |
| Silicon | ppm | ■ 25 | --- | --- | --- |
| Sodium | ppm | ■ 1 | --- | --- | --- |
| Potassium | ppm | ■ 4 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | ■ 10 | --- | --- | --- |
| Copper | ppm | ▲ 236 | --- | --- | --- |
| Lead | ppm | ■ <1 | --- | --- | --- |
| Tin | ppm | ■ 2 | --- | --- | --- |
| Aluminum | ppm | ■ 4 | --- | --- | --- |
| Chromium | ppm | ■ 0 | --- | --- | --- |
| Molybdenum | ppm | ■ 93 | --- | --- | --- |
| Nickel | ppm | ■ <1 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | ■ 0 | --- | --- | --- |
| Manganese | ppm | ■ 2 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ■ 2223 | --- | --- | --- |
| Magnesium | ppm | ■ 38 | --- | --- | --- |
| Zinc | ppm | ■ 1197 | --- | --- | --- |
| Phosphorus | ppm | ■ 971 | --- | --- | --- |
| Barium | ppm | ■ 0 | --- | --- | --- |
| Boron | ppm | ■ 12 | --- | --- | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0096
Unique No: 10671653
Signed: Jonathan Hester
Report Date: 06 Oct 2023



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GRAPHS

