



CONSTRUCTION EQUIPMENT

W02007657 VOLVO A25G 752865 - DIESEL ENGINE



Sample No: VCP420826
Oil Type: MOBIL 15W40
Job No: W02007657



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP420826 | --- | --- | --- |
| Sample Date | 31 Oct 2023 | --- | --- | --- |
| Machine Hours | 550 | --- | --- | --- |
| Oil Hours | 500 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | ▲ 11.1 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 6.0 | --- | --- | --- |
| Oxidation (PA) | % | ■ 59 | --- | --- | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.



CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | ■ 0.2 | --- | --- | --- |
| Nitration (PA) | % | ■ 78 | --- | --- | --- |
| Sulfation (PA) | % | ■ 53 | --- | --- | --- |
| Glycol | % | ■ NEG | --- | --- | --- |
| Fuel | % | ■ 0.5 | --- | --- | --- |
| Silicon | ppm | ■ 35 | --- | --- | --- |
| Sodium | ppm | ■ 3 | --- | --- | --- |
| Potassium | ppm | ■ <1 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | ■ 21 | --- | --- | --- |
| Copper | ppm | ▲ 274 | --- | --- | --- |
| Lead | ppm | ■ 4 | --- | --- | --- |
| Tin | ppm | ■ 2 | --- | --- | --- |
| Aluminum | ppm | ■ 2 | --- | --- | --- |
| Chromium | ppm | ■ <1 | --- | --- | --- |
| Molybdenum | ppm | ■ 88 | --- | --- | --- |
| Nickel | ppm | ■ <1 | --- | --- | --- |
| Titanium | ppm | <1 | --- | --- | --- |
| Silver | ppm | ■ 1 | --- | --- | --- |
| Manganese | ppm | ■ 5 | --- | --- | --- |
| Vanadium | ppm | <1 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ■ 2107 | --- | --- | --- |
| Magnesium | ppm | ■ 40 | --- | --- | --- |
| Zinc | ppm | ■ 1260 | --- | --- | --- |
| Phosphorus | ppm | ■ 983 | --- | --- | --- |
| Barium | ppm | ■ <1 | --- | --- | --- |
| Boron | ppm | ■ 65 | --- | --- | --- |

Depot: VOLVO0002
Unique No: 10726081
Signed: Don Baldrige
Report Date: 06 Nov 2023



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GRAPHS

