



CONSTRUCTION EQUIPMENT

X13679 VOLVO A25G 752684 - DIESEL ENGINE



Sample No: VCP399219
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X13679



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP399219 | --- | --- | --- |
| Sample Date | 28 Nov 2023 | --- | --- | --- |
| Machine Hours | 1192 | --- | --- | --- |
| Oil Hours | 1192 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | ▲ 10.7 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 5.4 | --- | --- | --- |
| Oxidation (PA) | % | 67 | --- | --- | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | ■ 0.3 | --- | --- | --- |
| Nitration (PA) | % | 83 | --- | --- | --- |
| Sulfation (PA) | % | 62 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | ■ 0.1 | --- | --- | --- |
| Silicon | ppm | ▲ 36 | --- | --- | --- |
| Sodium | ppm | ■ 3 | --- | --- | --- |
| Potassium | ppm | ■ 5 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | ■ 39 | --- | --- | --- |
| Copper | ppm | ■ 258 | --- | --- | --- |
| Lead | ppm | ■ 0 | --- | --- | --- |
| Tin | ppm | ■ 3 | --- | --- | --- |
| Aluminum | ppm | ■ 3 | --- | --- | --- |
| Chromium | ppm | ■ <1 | --- | --- | --- |
| Molybdenum | ppm | ■ 98 | --- | --- | --- |
| Nickel | ppm | ■ 4 | --- | --- | --- |
| Titanium | ppm | <1 | --- | --- | --- |
| Silver | ppm | ■ 0 | --- | --- | --- |
| Manganese | ppm | ■ 5 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ■ 2378 | --- | --- | --- |
| Magnesium | ppm | ■ 99 | --- | --- | --- |
| Zinc | ppm | ■ 1306 | --- | --- | --- |
| Phosphorus | ppm | ■ 1051 | --- | --- | --- |
| Barium | ppm | ■ 2 | --- | --- | --- |
| Boron | ppm | ■ 30 | --- | --- | --- |

Depot: VOLVO6241
Unique No: 10767961
Signed: Jonathan Hester
Report Date: 08 Dec 2023



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GRAPHS

