



CONSTRUCTION EQUIPMENT

12251 VOLVO A45G 353039 - DIESEL ENGINE



Sample No: VCP428831
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 12251



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP428831 | --- | --- | --- |
| Sample Date | 18 Mar 2024 | --- | --- | --- |
| Machine Hours | 1600 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

HOFFMAN EQUIPMENT - LIONVILLE
 120 GORDON DRIVE
 LIONVILLE, PA
 US 19341
 Contact: JIM FEHR
 jim.fehr@hoffmanequip.com
 T: (610)363-9200
 F: (610)594-0829

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | ● 11.0 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 10.3 | --- | --- | --- |
| Oxidation (PA) | % | 78 | --- | --- | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Valve wear is indicated. 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

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | ■ 0.2 | --- | --- | --- |
| Nitration (PA) | % | 56 | --- | --- | --- |
| Sulfation (PA) | % | 59 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | ■ 0.3 | --- | --- | --- |
| Silicon | ppm | ■ 6 | --- | --- | --- |
| Sodium | ppm | ■ 4 | --- | --- | --- |
| Potassium | ppm | ■ 1 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | ■ 8 | --- | --- | --- |
| Copper | ppm | ■ 31 | --- | --- | --- |
| Lead | ppm | ■ 0 | --- | --- | --- |
| Tin | ppm | ■ 0 | --- | --- | --- |
| Aluminum | ppm | ■ 1 | --- | --- | --- |
| Chromium | ppm | ■ <1 | --- | --- | --- |
| Molybdenum | ppm | ■ 37 | --- | --- | --- |
| Nickel | ppm | ▲ 6 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | ■ 0 | --- | --- | --- |
| Manganese | ppm | ■ <1 | --- | --- | --- |
| Vanadium | ppm | <1 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ■ 1672 | --- | --- | --- |
| Magnesium | ppm | ■ 466 | --- | --- | --- |
| Zinc | ppm | ■ 969 | --- | --- | --- |
| Phosphorus | ppm | ■ 706 | --- | --- | --- |
| Barium | ppm | ■ 0 | --- | --- | --- |
| Boron | ppm | ■ 51 | --- | --- | --- |

Depot: VOLVO8879
Unique No: 10949743
Signed: Jonathan Hester
Report Date: 02 Apr 2024



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GRAPHS

