



CONSTRUCTION EQUIPMENT

VOLVO A45G 352747 - DIESEL ENGINE



Sample No: VCP433575
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP433575 | --- | --- | --- |
| Sample Date | 25 Sep 2023 | --- | --- | --- |
| Machine Hours | 795 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | ▲ 10.7 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 7.3 | --- | --- | --- |
| Oxidation (PA) | % | ■ 63 | --- | --- | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. 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. Confirm oil type.



CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | ■ 0.5 | --- | --- | --- |
| Nitration (PA) | % | ■ 60 | --- | --- | --- |
| Sulfation (PA) | % | ■ 56 | --- | --- | --- |
| Glycol | % | ■ NEG | --- | --- | --- |
| Fuel | % | ■ 0.4 | --- | --- | --- |
| Silicon | ppm | ■ 34 | --- | --- | --- |
| Sodium | ppm | ■ 2 | --- | --- | --- |
| Potassium | ppm | ■ <1 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | ■ 36 | --- | --- | --- |
| Copper | ppm | ■ 147 | --- | --- | --- |
| Lead | ppm | ■ <1 | --- | --- | --- |
| Tin | ppm | ■ 5 | --- | --- | --- |
| Aluminum | ppm | ■ 6 | --- | --- | --- |
| Chromium | ppm | ■ 1 | --- | --- | --- |
| Molybdenum | ppm | ■ 62 | --- | --- | --- |
| Nickel | ppm | ▲ 12 | --- | --- | --- |
| Titanium | ppm | ■ 0 | --- | --- | --- |
| Silver | ppm | ■ 0 | --- | --- | --- |
| Manganese | ppm | ■ 3 | --- | --- | --- |
| Vanadium | ppm | ■ 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ■ 1735 | --- | --- | --- |
| Magnesium | ppm | ■ 400 | --- | --- | --- |
| Zinc | ppm | ■ 1239 | --- | --- | --- |
| Phosphorus | ppm | ■ 1016 | --- | --- | --- |
| Barium | ppm | ■ 0 | --- | --- | --- |
| Boron | ppm | ■ 84 | --- | --- | --- |

Depot: VOLVO0090
Unique No: 10669213
Signed: Angela Borella
Report Date: 29 Sep 2023



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GRAPHS

