



CONSTRUCTION EQUIPMENT

X47066 VOLVO EC300EL 317106 - DIESEL ENGINE



Sample No: VCP402524
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X47066



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP402524 | VCP391210 | --- | --- |
| Sample Date | 21 Jun 2023 | 09 Feb 2023 | --- | --- |
| Machine Hours | 611 | 336 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | N/A | N/A | --- | --- |
| Sample Status | NORMAL | ATTENTION | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|--------|-----|-----|
| Visc @ 100°C | cSt | 12.7 | ▲ 11.3 | --- | --- |
| Base Number (BN) | mg KOH/g | 10.4 | ■ 7.6 | --- | --- |
| Oxidation (PA) | % | 80 | 60 | --- | --- |

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|-------|-----|-----|
| Soot % | % | 0.1 | ■ 0.1 | --- | --- |
| Nitration (PA) | % | 51 | 68 | --- | --- |
| Sulfation (PA) | % | 61 | 52 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | ■ 0.5 | --- | --- |
| Silicon | ppm | 6 | ■ 24 | --- | --- |
| Sodium | ppm | 2 | ■ 4 | --- | --- |
| Potassium | ppm | 11 | ■ 19 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|------|-----|-----|
| Iron | ppm | 3 | ■ 10 | --- | --- |
| Copper | ppm | 4 | ■ 36 | --- | --- |
| Lead | ppm | 0 | ■ 2 | --- | --- |
| Tin | ppm | 0 | ■ <1 | --- | --- |
| Aluminum | ppm | <1 | ■ 6 | --- | --- |
| Chromium | ppm | 0 | ■ <1 | --- | --- |
| Molybdenum | ppm | 38 | ■ 84 | --- | --- |
| Nickel | ppm | 0 | ■ <1 | --- | --- |
| Titanium | ppm | <1 | 0 | --- | --- |
| Silver | ppm | <1 | ■ 1 | --- | --- |
| Manganese | ppm | <1 | ■ 2 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|--------|-----|-----|
| Calcium | ppm | 1595 | ■ 2174 | --- | --- |
| Magnesium | ppm | 423 | 73 | --- | --- |
| Zinc | ppm | 1069 | ■ 1204 | --- | --- |
| Phosphorus | ppm | 843 | ■ 967 | --- | --- |
| Barium | ppm | 14 | ■ 0 | --- | --- |
| Boron | ppm | 46 | ■ 63 | --- | --- |

Depot: VOLVO6244
Unique No: 10538110
Signed: Wes Davis
Report Date: 02 Jul 2023



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GRAPHS

