



CONSTRUCTION EQUIPMENT

41860 VOLVO EC480EL 315044 - DIESEL ENGINE



Sample No: VCP444905
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 41860



215 - ASCENDUM MACHINERY INC - CAYCE
 2303 AIRPORT BLVD
 CAYCE, SC
 US 29033
 Contact: TAMI BROWDER

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SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP444905 | --- | --- | --- |
| Sample Date | 11 Apr 2024 | --- | --- | --- |
| Machine Hours | 1535 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | ● 11.9 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 9.6 | --- | --- | --- |
| Oxidation (PA) | % | 81 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | ■ 0.1 | --- | --- | --- |
| Nitration (PA) | % | 58 | --- | --- | --- |
| Sulfation (PA) | % | 62 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | ■ 0.4 | --- | --- | --- |
| Silicon | ppm | ■ 10 | --- | --- | --- |
| Sodium | ppm | ■ <1 | --- | --- | --- |
| Potassium | ppm | ■ 1 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | ■ 3 | --- | --- | --- |
| Copper | ppm | ▲ 25 | --- | --- | --- |
| Lead | ppm | ■ 1 | --- | --- | --- |
| Tin | ppm | ■ 1 | --- | --- | --- |
| Aluminum | ppm | ■ 2 | --- | --- | --- |
| Chromium | ppm | ■ <1 | --- | --- | --- |
| Molybdenum | ppm | ■ 48 | --- | --- | --- |
| Nickel | ppm | ■ <1 | --- | --- | --- |
| Titanium | ppm | <1 | --- | --- | --- |
| Silver | ppm | ■ 0 | --- | --- | --- |
| Manganese | ppm | ■ <1 | --- | --- | --- |
| Vanadium | ppm | <1 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ■ 1834 | --- | --- | --- |
| Magnesium | ppm | ■ 543 | --- | --- | --- |
| Zinc | ppm | ■ 1209 | --- | --- | --- |
| Phosphorus | ppm | ■ 1051 | --- | --- | --- |
| Barium | ppm | ■ 0 | --- | --- | --- |
| Boron | ppm | ■ 41 | --- | --- | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. 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.

Depot: VOLVO0013
Unique No: 10978447
Signed: Jonathan Hester
Report Date: 19 Apr 2024



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GRAPHS

