



CONSTRUCTION EQUIPMENT

8000387032 VOLVO EC160EL 314249 - DIESEL ENGINE



Sample No: VCP392843
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8000387032



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP392843 | --- | --- | --- |
| Sample Date | 29 Nov 2023 | --- | --- | --- |
| Machine Hours | 1658 | --- | --- | --- |
| Oil Hours | 604 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|----------------|-----|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 12.4 | --- | --- | --- |
| Oxidation (PA) | % | █ 80 | --- | --- | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | █ NEG | --- | --- | --- |
| Soot % | % | █ 0.2 | --- | --- | --- |
| Nitration (PA) | % | █ 64 | --- | --- | --- |
| Sulfation (PA) | % | █ 61 | --- | --- | --- |
| Glycol | % | █ NEG | --- | --- | --- |
| Fuel | % | █ 2.3 | --- | --- | --- |
| Silicon | ppm | █ 7 | --- | --- | --- |
| Sodium | ppm | █ 3 | --- | --- | --- |
| Potassium | ppm | █ 0 | --- | --- | --- |

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | █ 29 | --- | --- | --- |
| Copper | ppm | █ 2 | --- | --- | --- |
| Lead | ppm | █ <1 | --- | --- | --- |
| Tin | ppm | █ 1 | --- | --- | --- |
| Aluminum | ppm | █ 7 | --- | --- | --- |
| Chromium | ppm | █ 1 | --- | --- | --- |
| Molybdenum | ppm | █ 41 | --- | --- | --- |
| Nickel | ppm | █ 2 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ <1 | --- | --- | --- |
| Manganese | ppm | █ <1 | --- | --- | --- |
| Vanadium | ppm | █ 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1681 | --- | --- | --- |
| Magnesium | ppm | █ 499 | --- | --- | --- |
| Zinc | ppm | █ 1080 | --- | --- | --- |
| Phosphorus | ppm | █ 896 | --- | --- | --- |
| Barium | ppm | █ <1 | --- | --- | --- |
| Boron | ppm | █ 26 | --- | --- | --- |

Depot: SHEDAR
Unique No: 5694301
Signed: Wes Davis
Report Date: 07 Dec 2023



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GRAPHS

