



CONSTRUCTION EQUIPMENT

VOLVO ECR145E 314490 - DIESEL ENGINE



Sample No: VCP0007515
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP0007515 | VCP0002523 | --- | --- |
| Sample Date | 11 Aug 2023 | 27 Jun 2022 | --- | --- |
| Machine Hours | 2999 | 2042 | --- | --- |
| Oil Hours | 2999 | 2042 | --- | --- |
| Oil Changed | N/A | N/A | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|-----|-----|
| Visc @ 100°C | cSt | 12.4 | 13.5 | --- | --- |
| Base Number (BN) | mg KOH/g | 8.4 | 10.5 | --- | --- |
| Oxidation (PA) | % | 82 | 81 | --- | --- |

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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 | 0.4 | --- | --- |
| Nitration (PA) | % | 70 | 69 | --- | --- |
| Sulfation (PA) | % | 60 | 60 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | 0.6 | <1.0 | --- | --- |
| Silicon | ppm | 5 | 8 | --- | --- |
| Sodium | ppm | 3 | 3 | --- | --- |
| Potassium | ppm | 2 | 0 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|-----|-----|
| Iron | ppm | 4 | 19 | --- | --- |
| Copper | ppm | 9 | 2 | --- | --- |
| Lead | ppm | 1 | 0 | --- | --- |
| Tin | ppm | 1 | 1 | --- | --- |
| Aluminum | ppm | 0 | 4 | --- | --- |
| Chromium | ppm | 0 | 1 | --- | --- |
| Molybdenum | ppm | 41 | 41 | --- | --- |
| Nickel | ppm | 0 | <1 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | <1 | <1 | --- | --- |
| Vanadium | ppm | <1 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|-----|-----|
| Calcium | ppm | 1752 | 1832 | --- | --- |
| Magnesium | ppm | 551 | 536 | --- | --- |
| Zinc | ppm | 1192 | 1131 | --- | --- |
| Phosphorus | ppm | 939 | 905 | --- | --- |
| Barium | ppm | 0 | 0 | --- | --- |
| Boron | ppm | 18 | 40 | --- | --- |

Depot: VOLVO0092
Unique No: 10605661
Signed: Wes Davis
Report Date: 17 Aug 2023



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GRAPHS

