



CONSTRUCTION EQUIPMENT

A10813 VOLVO ECR235E 315063 - DIESEL ENGINE



Sample No: VCP430663
Oil Type: MOBIL 15W40
Job No: A10813



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP430663 | VCP420720 | VCP385697 | --- |
| Sample Date | 12 Oct 2023 | 01 Jun 2023 | 22 Sep 2022 | --- |
| Machine Hours | 2480 | 1990 | 940 | --- |
| Oil Hours | 80 | 500 | 500 | --- |
| Oil Changed | Not Chngd | Changed | Changed | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|-----|
| Visc @ 100°C | cSt | 14.0 | 13.8 | 13.5 | --- |
| Base Number (BN) | mg KOH/g | 10.0 | 9.7 | 8.1 | --- |
| Oxidation (PA) | % | 57 | 66 | 59 | --- |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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 | 0.1 | --- |
| Nitration (PA) | % | 50 | 68 | 53 | --- |
| Sulfation (PA) | % | 52 | 56 | 59 | --- |
| Glycol | % | NEG | NEG | NEG | --- |
| Fuel | % | <1.0 | <1.0 | <1.0 | --- |
| Silicon | ppm | 11 | 18 | 19 | --- |
| Sodium | ppm | 2 | 2 | 0 | --- |
| Potassium | ppm | 0 | 0 | 2 | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|-----|-----|
| Iron | ppm | 2 | 11 | 9 | --- |
| Copper | ppm | <1 | <1 | 2 | --- |
| Lead | ppm | 0 | 0 | 0 | --- |
| Tin | ppm | 0 | 1 | 1 | --- |
| Aluminum | ppm | 3 | 7 | 6 | --- |
| Chromium | ppm | 0 | <1 | <1 | --- |
| Molybdenum | ppm | 59 | 66 | 107 | --- |
| Nickel | ppm | 0 | 0 | 0 | --- |
| Titanium | ppm | <1 | <1 | 0 | --- |
| Silver | ppm | 0 | 0 | 0 | --- |
| Manganese | ppm | <1 | <1 | <1 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|-----|
| Calcium | ppm | 1080 | 1143 | 1467 | --- |
| Magnesium | ppm | 1058 | 1172 | 574 | --- |
| Zinc | ppm | 1326 | 1325 | 852 | --- |
| Phosphorus | ppm | 980 | 1088 | 704 | --- |
| Barium | ppm | 0 | 0 | 3 | --- |
| Boron | ppm | 106 | 86 | 63 | --- |

Depot: WASTEL
Unique No: 10711614
Signed: Wes Davis
Report Date: 26 Oct 2023



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GRAPHS

