



CONSTRUCTION EQUIPMENT

VOLVO ECR355EL 314257 - DIESEL ENGINE



Sample No: VCP0007369

Oil Type: DIESEL ENGINE OIL SAE 40

Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP0007369 | VCP362455 | --- | --- |
| Sample Date | 25 Sep 2023 | 16 Mar 2022 | --- | --- |
| Machine Hours | 493 | 493 | --- | --- |
| Oil Hours | 493 | 493 | --- | --- |
| Oil Changed | N/A | Changed | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

ALTA EQUIPMENT COMPANY
 8750 PHILIPS HWY
 JACKSONVILLE, FL
 US 32256
 Contact: SHAWN NORTHCRAFT
 shawn.northcraft@altg.com
 T: (904)737-6000
 F: (904)737-1260



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|-----|-----|
| Visc @ 100°C | cSt | 12.8 | 12.9 | --- | --- |
| Base Number (BN) | mg KOH/g | 9.8 | 6.7 | --- | --- |
| Oxidation (PA) | % | 81 | 43 | --- | --- |

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) | % | 64 | 58 | --- | --- |
| Sulfation (PA) | % | 59 | 48 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | <1.0 | --- | --- |
| Silicon | ppm | 6 | 17 | --- | --- |
| Sodium | ppm | 2 | 4 | --- | --- |
| Potassium | ppm | 4 | 5 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|-----|-----|
| Iron | ppm | 19 | 22 | --- | --- |
| Copper | ppm | 5 | 30 | --- | --- |
| Lead | ppm | 1 | 4 | --- | --- |
| Tin | ppm | 1 | 3 | --- | --- |
| Aluminum | ppm | 6 | 15 | --- | --- |
| Chromium | ppm | <1 | 1 | --- | --- |
| Molybdenum | ppm | 45 | 5 | --- | --- |
| Nickel | ppm | 0 | 10 | --- | --- |
| Titanium | ppm | <1 | <1 | --- | --- |
| Silver | ppm | 0 | 2 | --- | --- |
| Manganese | ppm | <1 | 2 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|-----|-----|
| Calcium | ppm | 1824 | 2300 | --- | --- |
| Magnesium | ppm | 536 | 320 | --- | --- |
| Zinc | ppm | 1221 | 1204 | --- | --- |
| Phosphorus | ppm | 958 | 1127 | --- | --- |
| Barium | ppm | 0 | 0 | --- | --- |
| Boron | ppm | 29 | 12 | --- | --- |

Depot: VOLVO0092
Unique No: 10669765
Signed: Wes Davis
Report Date: 29 Sep 2023



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GRAPHS

