



CONSTRUCTION EQUIPMENT

W07012851 SOUTHERN VOLVO ECR235E 314093 - FRONT LEFT FINAL DRIVE



Sample No: VCP418016
Oil Type: GEAR OIL SAE 80W140
Job No: W07012851 SOUTHERN



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP418016 | --- | --- | --- |
| Sample Date | 26 Jul 2023 | --- | --- | --- |
| Machine Hours | 2008 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | SEVERE | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | ■ 293 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|---------|-----|-----|-----|
| Water | % | ■ 0.164 | --- | --- | --- |
| Silicon | ppm | ● 808 | --- | --- | --- |
| Sodium | ppm | ■ 18 | --- | --- | --- |
| Potassium | ppm | ■ 52 | --- | --- | --- |

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Iron | ppm | ● 1592 | --- | --- | --- |
| Copper | ppm | ■ 2 | --- | --- | --- |
| Lead | ppm | ■ 0 | --- | --- | --- |
| Tin | ppm | ■ <1 | --- | --- | --- |
| Aluminum | ppm | ▲ 185 | --- | --- | --- |
| Chromium | ppm | ● 43 | --- | --- | --- |
| Molybdenum | ppm | ■ 5 | --- | --- | --- |
| Nickel | ppm | ■ 5 | --- | --- | --- |
| Titanium | ppm | 14 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | 19 | --- | --- | --- |
| Vanadium | ppm | <1 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Calcium | ppm | ■ 68 | --- | --- | --- |
| Magnesium | ppm | ■ 13 | --- | --- | --- |
| Zinc | ppm | ■ 33 | --- | --- | --- |
| Phosphorus | ppm | ■ 864 | --- | --- | --- |
| Barium | ppm | ■ 0 | --- | --- | --- |
| Boron | ppm | ■ 100 | --- | --- | --- |

Depot: VOLVO8882
Unique No: 10578257
Signed: Don Baldrige
Report Date: 01 Aug 2023



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VOLVO GRAPHS

