



CONSTRUCTION EQUIPMENT

SPM593827 VOLVO ECR235 311787 - REAR LEFT FINAL DRIVE



Sample No: VCP417688
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SPM593827



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SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP417688 | VCP319771 | --- | --- |
| Sample Date | 08 Aug 2023 | 15 Sep 2021 | --- | --- |
| Machine Hours | 2592 | 1063 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Not Chngd | --- | --- |
| Sample Status | ABNORMAL | ABNORMAL | --- | --- |



OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 191 | 181 | --- | --- |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|--------------|-------|-----|-----|
| Silicon | ppm | ▲ 169 | ▲ 106 | --- | --- |
| Sodium | ppm | ■ 2 | ■ 4 | --- | --- |
| Potassium | ppm | ■ 11 | ■ 7 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|---------------|-------|-----|-----|
| Iron | ppm | ▲ 1517 | ▲ 833 | --- | --- |
| Copper | ppm | ■ 1 | ■ 1 | --- | --- |
| Lead | ppm | ■ 0 | ■ <1 | --- | --- |
| Tin | ppm | ■ 0 | ■ <1 | --- | --- |
| Aluminum | ppm | ▲ 18 | ■ 13 | --- | --- |
| Chromium | ppm | ▲ 40 | ▲ 29 | --- | --- |
| Molybdenum | ppm | ■ 4 | 4 | --- | --- |
| Nickel | ppm | ■ 2 | 1 | --- | --- |
| Titanium | ppm | 1 | 2 | --- | --- |
| Silver | ppm | 0 | <1 | --- | --- |
| Manganese | ppm | ■ 19 | 12 | --- | --- |
| Vanadium | ppm | 0 | <1 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Calcium | ppm | ■ 132 | 92 | --- | --- |
| Magnesium | ppm | ■ 0 | 2 | --- | --- |
| Zinc | ppm | ■ 14 | 23 | --- | --- |
| Phosphorus | ppm | ■ 397 | 399 | --- | --- |
| Barium | ppm | ■ 0 | 0 | --- | --- |
| Boron | ppm | ■ 0 | 12 | --- | --- |

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. Resample at the next service interval to monitor. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0093
Unique No: 10605057
Signed: Don Baldrige
Report Date: 16 Aug 2023



CONSTRUCTION EQUIPMENT



GRAPHS

