



CONSTRUCTION EQUIPMENT

8000383051 VOLVO EC300EL 315097 - REAR RIGHT FINAL DRIVE



Sample No: VCP393890
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 8000383051



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP393890 | --- | --- | --- |
| Sample Date | 20 Nov 2023 | --- | --- | --- |
| Machine Hours | 3944 | --- | --- | --- |
| Oil Hours | 2000 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | SEVERE | --- | --- | --- |

STRONGCO EQUIP (AB)

6 - 38403 BURNT LAKE TRAIL
 RED DEER COUNTY, AB
 CA T4S 2L4
 Contact: Joseph St Peter
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OIL CONDITION

| | | | | | |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | █ 175 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|--------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Silicon | ppm | ▲ 1794 | --- | --- | --- |
| Sodium | ppm | █ 32 | --- | --- | --- |
| Potassium | ppm | █ 76 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| PQ | | ● 3992 | --- | --- | --- |
| Iron | ppm | ● 6165 | --- | --- | --- |
| Copper | ppm | █ 13 | --- | --- | --- |
| Lead | ppm | █ <1 | --- | --- | --- |
| Tin | ppm | █ 0 | --- | --- | --- |
| Aluminum | ppm | ▲ 203 | --- | --- | --- |
| Chromium | ppm | ● 62 | --- | --- | --- |
| Molybdenum | ppm | █ 6 | --- | --- | --- |
| Nickel | ppm | █ 2 | --- | --- | --- |
| Titanium | ppm | ▲ 13 | --- | --- | --- |
| Silver | ppm | <1 | --- | --- | --- |
| Manganese | ppm | █ 53 | --- | --- | --- |
| Vanadium | ppm | <1 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 440 | --- | --- | --- |
| Magnesium | ppm | █ 103 | --- | --- | --- |
| Zinc | ppm | █ 20 | --- | --- | --- |
| Phosphorus | ppm | █ 1217 | --- | --- | --- |
| Barium | ppm | █ 1 | --- | --- | --- |
| Boron | ppm | █ 69 | --- | --- | --- |

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Chromium and iron ppm levels are severe. PQ levels are severe. Aluminum ppm levels are noted. Titanium ppm levels are marginal. Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VOLVO9652
Unique No: 5683322
Signed: Kevin Marson
Report Date: 23 Nov 2023



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GRAPHS

