



CONSTRUCTION EQUIPMENT

X48144 VOLVO EC380EL 311913 - REAR RIGHT FINAL DRIVE



Sample No: VCP450956
Oil Type: GEAR OIL SAE 75W80
Job No: X48144



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP450956 | VCP340394 | --- | --- |
| Sample Date | 08 May 2024 | 23 Jun 2022 | --- | --- |
| Machine Hours | 6192 | 4252 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Not Chngd | N/A | --- | --- |
| Sample Status | SEVERE | SEVERE | --- | --- |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 296 | 161 | --- | --- |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|--------------|-------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Silicon | ppm | ▲ 201 | ▲ 381 | --- | --- |
| Sodium | ppm | ■ 3 | ■ 3 | --- | --- |
| Potassium | ppm | ■ 14 | ■ 20 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|--------|-----|-----|
| Iron | ppm | ▲ 985 | ▲ 2109 | --- | --- |
| Copper | ppm | ■ 6 | ■ 4 | --- | --- |
| Lead | ppm | ■ 0 | ■ <1 | --- | --- |
| Tin | ppm | ■ 0 | ■ 0 | --- | --- |
| Aluminum | ppm | ● 53 | ● 81 | --- | --- |
| Chromium | ppm | ▲ 14 | ▲ 35 | --- | --- |
| Molybdenum | ppm | ■ 1 | 4 | --- | --- |
| Nickel | ppm | ■ <1 | <1 | --- | --- |
| Titanium | ppm | 4 | 6 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | ■ 8 | 16 | --- | --- |
| Vanadium | ppm | <1 | <1 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ■ 160 | 124 | --- | --- |
| Magnesium | ppm | ■ 10 | 14 | --- | --- |
| Zinc | ppm | ■ 36 | 23 | --- | --- |
| Phosphorus | ppm | ■ 1031 | 849 | --- | --- |
| Barium | ppm | ■ <1 | 0 | --- | --- |
| Boron | ppm | ■ 174 | 91 | --- | --- |

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. The iron level has decreased, but is still abnormal. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is higher than normal. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLV00129
Unique No: 11030529
Signed: Don Baldrige
Report Date: 16 May 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

