



CONSTRUCTION EQUIPMENT

SW-34353-2 DYNAMIC VOLVO EC220E 314480 - REAR RIGHT FINAL DRIVE



Sample No: VCP391257
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: SW-34353-2 DYNAMIC



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP391257 | --- | --- | --- |
| Sample Date | 15 May 2024 | --- | --- | --- |
| Machine Hours | 2179 | --- | --- | --- |
| Oil Hours | 2179 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | SEVERE | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | ■ 180 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Silicon | ppm | ▲ 682 | --- | --- | --- |
| Sodium | ppm | ■ 11 | --- | --- | --- |
| Potassium | ppm | ■ 58 | --- | --- | --- |

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 oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR METALS

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Iron | ppm | ▲ 2834 | --- | --- | --- |
| Copper | ppm | ■ 4 | --- | --- | --- |
| Lead | ppm | ■ <1 | --- | --- | --- |
| Tin | ppm | ■ 0 | --- | --- | --- |
| Aluminum | ppm | ▲ 125 | --- | --- | --- |
| Chromium | ppm | ▲ 28 | --- | --- | --- |
| Molybdenum | ppm | ■ 4 | --- | --- | --- |
| Nickel | ppm | ■ 7 | --- | --- | --- |
| Titanium | ppm | 8 | --- | --- | --- |
| Silver | ppm | <1 | --- | --- | --- |
| Manganese | ppm | ■ 30 | --- | --- | --- |
| Vanadium | ppm | <1 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Calcium | ppm | ■ 372 | --- | --- | --- |
| Magnesium | ppm | ■ 51 | --- | --- | --- |
| Zinc | ppm | ■ 21 | --- | --- | --- |
| Phosphorus | ppm | ■ 214 | --- | --- | --- |
| Barium | ppm | ■ <1 | --- | --- | --- |
| Boron | ppm | ■ 9 | --- | --- | --- |

Depot: VOLVO8770
Unique No: 11046307
Signed: Angela Borella
Report Date: 29 May 2024



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GRAPHS

