



CONSTRUCTION EQUIPMENT

A68736 VOLVO EC140BLC 12234 - FRONT RIGHT FINAL DRIVE



Sample No: VCP437230
Oil Type: GEAR OIL SAE 85W140
Job No: A68736



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SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP437230 | --- | --- | --- |
| Sample Date | 23 Apr 2024 | --- | --- | --- |
| Machine Hours | 5557 | --- | --- | --- |
| Oil Hours | 5557 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | SEVERE | --- | --- | --- |



OIL CONDITION

| | | | | | |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | ■ 317 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|---------|-----|-----|-----|
| Water | % | ▲ 0.304 | --- | --- | --- |
| Silicon | ppm | ▲ 1874 | --- | --- | --- |
| Sodium | ppm | ■ 99 | --- | --- | --- |
| Potassium | ppm | ■ 144 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Iron | ppm | ▲ 3923 | --- | --- | --- |
| Copper | ppm | ■ 10 | --- | --- | --- |
| Lead | ppm | ■ <1 | --- | --- | --- |
| Tin | ppm | ■ 0 | --- | --- | --- |
| Aluminum | ppm | ● 388 | --- | --- | --- |
| Chromium | ppm | ▲ 72 | --- | --- | --- |
| Molybdenum | ppm | ■ 5 | --- | --- | --- |
| Nickel | ppm | ▲ 11 | --- | --- | --- |
| Titanium | ppm | ▲ 25 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | 29 | --- | --- | --- |
| Vanadium | ppm | 1 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ■ 145 | --- | --- | --- |
| Magnesium | ppm | 41 | --- | --- | --- |
| Zinc | ppm | ■ 60 | --- | --- | --- |
| Phosphorus | ppm | ■ 1085 | --- | --- | --- |
| Barium | ppm | ■ 3 | --- | --- | --- |
| Boron | ppm | ■ 184 | --- | --- | --- |

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. There is a light concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0006
Unique No: 11004015
Signed: Jonathan Hester
Report Date: 01 May 2024



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GRAPHS

