



CONSTRUCTION EQUIPMENT

SPM701371 VOLVO ECR235EL 3 10702 - SWING DRIVE



Sample No: VCP443526
Oil Type: GEAR OIL SAE 80W90
Job No: SPM701371



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP443526 | VCP350049 | --- | --- |
| Sample Date | 12 Apr 2024 | 02 Mar 2022 | --- | --- |
| Machine Hours | 4256 | 3512 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Not Chngd | --- | --- |
| Sample Status | SEVERE | SEVERE | --- | --- |

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OIL CONDITION

| | | | | | |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 501 | 184 | --- | --- |
|-------------|-----|-----|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|------|-------|-----|-----|
| Water | % | 9.04 | 0.402 | --- | --- |
| Silicon | ppm | 72 | 16 | --- | --- |
| Sodium | ppm | 4 | 0 | --- | --- |
| Potassium | ppm | 3 | 6 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|-------|------|-----|-----|
| Iron | ppm | 14704 | 2233 | --- | --- |
| Copper | ppm | 301 | 34 | --- | --- |
| Lead | ppm | 4 | <1 | --- | --- |
| Tin | ppm | 5 | 0 | --- | --- |
| Aluminum | ppm | 16 | 29 | --- | --- |
| Chromium | ppm | 120 | 21 | --- | --- |
| Molybdenum | ppm | 27 | 4 | --- | --- |
| Nickel | ppm | 8 | 2 | --- | --- |
| Titanium | ppm | 6 | <1 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | 134 | 20 | --- | --- |
| Vanadium | ppm | 1 | <1 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Calcium | ppm | 43 | 6 | --- | --- |
| Magnesium | ppm | 59 | 7 | --- | --- |
| Zinc | ppm | 199 | 64 | --- | --- |
| Phosphorus | ppm | 2488 | 601 | --- | --- |
| Barium | ppm | <1 | 0 | --- | --- |
| Boron | ppm | 18 | 20 | --- | --- |

Diagnosis

We advise that you check for the source of water entry. 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. The copper level is severe. Bearing and/or bushing wear is indicated. Iron and chrome levels are severe. Gear wear is indicated. There is a high concentration of water present in the oil. Viscosity is higher than normal. The oil is no longer serviceable as a result of water and the abnormal and/or severe wear.

Depot: VOLVO8885
Unique No: 10990224
Signed: Don Baldrige
Report Date: 23 Apr 2024



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GRAPHS

