



CONSTRUCTION EQUIPMENT

SPM701371 VOLVO ECR235EL 310702 - RIGHT FINAL DRIVE



Sample No: VCP443529
Oil Type: GEAR OIL SAE 80W90
Job No: SPM701371



SAMPLE INFORMATION

Sample Number	VCP443529	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	4256	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:



OIL CONDITION

Visc @ 40°C	cSt	● 285	---	---	---
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CONTAMINATION

Water	%	■ 0.168	---	---	---
Silicon	ppm	▲ 1856	---	---	---
Sodium	ppm	■ 28	---	---	---
Potassium	ppm	■ 64	---	---	---

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. The iron and chrome levels are severe. 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. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	▲ 5622	---	---	---
Copper	ppm	■ 8	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	● 170	---	---	---
Chromium	ppm	▲ 69	---	---	---
Molybdenum	ppm	■ 12	---	---	---
Nickel	ppm	■ 6	---	---	---
Titanium	ppm	■ 11	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 49	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 290	---	---	---
Magnesium	ppm	■ 116	---	---	---
Zinc	ppm	■ 42	---	---	---
Phosphorus	ppm	■ 864	---	---	---
Barium	ppm	■ 1	---	---	---
Boron	ppm	■ 121	---	---	---

Depot: VOLVO8885
Unique No: 10990267
Signed: Don Baldrige
Report Date: 23 Apr 2024



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GRAPHS

