



CONSTRUCTION EQUIPMENT

X59829 VOLVO EC350EL 314453 - REAR RIGHT FINAL DRIVE



Sample No: VCP441813
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: X59829



SAMPLE INFORMATION

Sample Number	VCP441813	VCP384610	---	---
Sample Date	01 Jul 2024	27 Feb 2023	---	---
Machine Hours	970	302	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	SEVERE	ABNORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	337	174	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	▲ 403	▲ 76	---	---
Sodium	ppm	■ 10	■ 3	---	---
Potassium	ppm	■ 11	■ 4	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition. Gear wear is indicated. All other metal levels are typical for a new component breaking in. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	▲ 2329	▲ 520	---	---
Copper	ppm	■ 5	■ <1	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	● 57	● 13	---	---
Chromium	ppm	▲ 43	▲ 20	---	---
Molybdenum	ppm	■ 5	2	---	---
Nickel	ppm	■ 2	1	---	---
Titanium	ppm	7	1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	■ 21	7	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	■ 341	17	---	---
Magnesium	ppm	■ 20	3	---	---
Zinc	ppm	■ 23	11	---	---
Phosphorus	ppm	■ 875	306	---	---
Barium	ppm	■ 4	0	---	---
Boron	ppm	■ 105	0	---	---

Depot: SCOSAI
Unique No: 11116073
Signed: Don Baldrige
Report Date: 12 Jul 2024



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GRAPHS

