



CONSTRUCTION EQUIPMENT

SWA398817 COM METALS VOLVO EC350EL 314209 - REAR RIGHT FINAL DRIVE



Sample No: VCP429223
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SWA398817 COM METALS



SAMPLE INFORMATION

Sample Number	VCP429223	---	---	---
Sample Date	27 Oct 2023	---	---	---
Machine Hours	2103	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	■ 346	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 869	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 20	---	---	---



WEAR METALS

Iron	ppm	● 2286	---	---	---
Copper	ppm	■ 4	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	▲ 249	---	---	---
Chromium	ppm	▲ 20	---	---	---
Molybdenum	ppm	■ 2	---	---	---
Nickel	ppm	■ 3	---	---	---
Titanium	ppm	■ 19	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 19	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 35	---	---	---
Magnesium	ppm	■ 7	---	---	---
Zinc	ppm	■ 0	---	---	---
Phosphorus	ppm	■ 1126	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 148	---	---	---

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. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0093
Unique No: 10753484
Signed: Don Baldrige
Report Date: 24 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

