



CONSTRUCTION EQUIPMENT

VOLVO EC300EL 315163 - RIGHT FINAL DRIVE



Sample No: VCP369931
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No:



SAMPLE INFORMATION

Sample Number	VCP369931	---	---	---
Sample Date	05 Sep 2023	---	---	---
Machine Hours	1913	---	---	---
Oil Hours	1913	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

McClung-Logan Virginia LLC
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 WISE, VA
 US 24293
 Contact: DANNY BARRINGTON
 dbarrington@mcclung-logan.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	■ 298	---	---	---
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CONTAMINATION

Silicon	ppm	● 584	---	---	---
Sodium	ppm	■ 10	---	---	---
Potassium	ppm	■ 65	---	---	---

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.



WEAR METALS

Iron	ppm	● 2174	---	---	---
Copper	ppm	■ 4	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	▲ 176	---	---	---
Chromium	ppm	● 35	---	---	---
Molybdenum	ppm	■ 3	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	■ 11	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 20	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 17	---	---	---
Magnesium	ppm	■ 12	---	---	---
Zinc	ppm	■ 8	---	---	---
Phosphorus	ppm	■ 894	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 115	---	---	---

Depot: VOLVO8881
Unique No: 10648247
Signed: Doug Bogart
Report Date: 18 Sep 2023



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GRAPHS

