



CONSTRUCTION EQUIPMENT

5287 VOLVO EC300E 312689 - REAR LEFT FINAL DRIVE



Sample No: VCP402087
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 5287



SAMPLE INFORMATION

Sample Number	VCP402087	VCP319720	---	---
Sample Date	22 May 2023	23 Aug 2021	---	---
Machine Hours	4000	2176	---	---
Oil Hours	1000	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	SEVERE	---	---

McClung-Logan Virginia LLC
 2025 COOK DRIVE
 SALEM, VA
 US 24153
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 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	320	209	---	---
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CONTAMINATION

Water	%	0.248	---	---	---
Silicon	ppm	642	835	---	---
Sodium	ppm	10	4	---	---
Potassium	ppm	75	100	---	---

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. There is a light concentration of water present in the oil. 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	1686	2008	---	---
Copper	ppm	4	5	---	---
Lead	ppm	0	0	---	---
Tin	ppm	1	0	---	---
Aluminum	ppm	209	230	---	---
Chromium	ppm	18	28	---	---
Molybdenum	ppm	2	0	---	---
Nickel	ppm	2	2	---	---
Titanium	ppm	12	16	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	13	18	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	121	132	---	---
Magnesium	ppm	70	84	---	---
Zinc	ppm	28	20	---	---
Phosphorus	ppm	893	327	---	---
Barium	ppm	0	2	---	---
Boron	ppm	109	19	---	---

Depot: VOLVO9010
Unique No: 10484517
Signed: Don Baldrige
Report Date: 25 May 2023



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GRAPHS

