



CONSTRUCTION EQUIPMENT

5287 VOLVO EC300E 312689 - REAR RIGHT FINAL DRIVE



Sample No: VCP408819
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 5287



SAMPLE INFORMATION

Sample Number	VCP408819	VCP319718	---	---
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
 Contact: CHRIS BLANKENSHIP
 cblankenship@mcclung-logan.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	394	220	---	---
-------------	-----	------------	-----	-----	-----



CONTAMINATION

Water	%	0.200	---	---	---
Silicon	ppm	1059	919	---	---
Sodium	ppm	8	5	---	---
Potassium	ppm	123	96	---	---



WEAR METALS

Iron	ppm	3003	2611	---	---
Copper	ppm	8	6	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	1	<1	---	---
Aluminum	ppm	312	223	---	---
Chromium	ppm	28	32	---	---
Molybdenum	ppm	3	3	---	---
Nickel	ppm	3	2	---	---
Titanium	ppm	20	18	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	21	22	---	---
Vanadium	ppm	1	<1	---	---



ADDITIVES

Calcium	ppm	216	166	---	---
Magnesium	ppm	132	83	---	---
Zinc	ppm	31	24	---	---
Phosphorus	ppm	940	387	---	---
Barium	ppm	0	0	---	---
Boron	ppm	129	4	---	---

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.

Depot: VOLVO9010
Unique No: 10484518
Signed: Don Baldrige
Report Date: 25 May 2023



CONSTRUCTION EQUIPMENT



GRAPHS

