



CONSTRUCTION EQUIPMENT

580485 VOLVO EC300EL 314677 - REAR RIGHT FINAL DRIVE



Sample No: VCP417053
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 580485



SAMPLE INFORMATION

Sample Number	VCP417053	VCP385315	---	---
Sample Date	25 Jul 2023	01 Nov 2022	---	---
Machine Hours	1036	494	---	---
Oil Hours	0	494	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	250	170	---	---
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CONTAMINATION

Silicon	ppm	▲ 92	12	---	---
Sodium	ppm	■ <1	<1	---	---
Potassium	ppm	■ 6	0	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	▲ 740	324	---	---
Copper	ppm	■ 1	2	---	---
Lead	ppm	■ 0	0	---	---
Tin	ppm	■ 0	0	---	---
Aluminum	ppm	■ 5	2	---	---
Chromium	ppm	▲ 15	6	---	---
Molybdenum	ppm	■ 4	1	---	---
Nickel	ppm	■ 1	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 8	4	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 73	49	---	---
Magnesium	ppm	■ 9	<1	---	---
Zinc	ppm	■ 53	31	---	---
Phosphorus	ppm	■ 815	252	---	---
Barium	ppm	■ 0	1	---	---
Boron	ppm	■ 79	9	---	---

Depot: VOLVO0093
Unique No: 10616431
Signed: Don Baldrige
Report Date: 23 Aug 2023



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VOLVO GRAPHS

