



CONSTRUCTION EQUIPMENT

375637 VOLVO EC300 310153 - REAR RIGHT FINAL DRIVE



Sample No: VCP426183
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 375637



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
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SAMPLE INFORMATION

Sample Number	VCP426183	VCP376625	---	---
Sample Date	04 Oct 2023	01 Aug 2022	---	---
Machine Hours	5303	3343	---	---
Oil Hours	3003	1500	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	SEVERE	ABNORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	288	255	---	---
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CONTAMINATION

Silicon	ppm	▲ 143	28	---	---
Sodium	ppm	■ 0	2	---	---
Potassium	ppm	■ 6	3	---	---



WEAR METALS

Iron	ppm	◆ 1835	▲ 970	---	---
Copper	ppm	■ 4	2	---	---
Lead	ppm	■ <1	<1	---	---
Tin	ppm	■ 0	1	---	---
Aluminum	ppm	■ 8	4	---	---
Chromium	ppm	◆ 30	▲ 16	---	---
Molybdenum	ppm	■ 5	3	---	---
Nickel	ppm	■ 2	2	---	---
Titanium	ppm	1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	■ 18	10	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 145	103	---	---
Magnesium	ppm	■ 9	2	---	---
Zinc	ppm	■ 60	65	---	---
Phosphorus	ppm	■ 847	749	---	---
Barium	ppm	■ 10	<1	---	---
Boron	ppm	■ 65	70	---	---

Diagnosis

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 level of silicon (Si) above normal indicating ingress of seal material. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VOLVO0093
Unique No: 10709585
Signed: Sean Felton
Report Date: 25 Oct 2023



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GRAPHS

