



# CONSTRUCTION EQUIPMENT

## 375637 VOLVO EC300 310153 - REAR LEFT FINAL DRIVE



**Sample No:** VCP426178  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 375637



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### SAMPLE INFORMATION

Sample Number	<b>VCP426178</b>	VCP376624	---	---
Sample Date	<b>04 Oct 2023</b>	01 Aug 2022	---	---
Machine Hours	<b>5303</b>	3343	---	---
Oil Hours	<b>3003</b>	1500	---	---
Oil Changed	<b>Changed</b>	Not Chngd	---	---
Sample Status	<b>SEVERE</b>	ABNORMAL	---	---



### OIL CONDITION

Visc @ 40°C	cSt	<b>287</b>	253	---	---
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### CONTAMINATION

Silicon	ppm	<b>▲ 134</b>	28	---	---
Sodium	ppm	<b>■ 8</b>	2	---	---
Potassium	ppm	<b>■ 8</b>	3	---	---



### WEAR METALS

Iron	ppm	<b>◆ 2170</b>	968	---	---
Copper	ppm	<b>■ 5</b>	2	---	---
Lead	ppm	<b>■ &lt;1</b>	0	---	---
Tin	ppm	<b>■ 0</b>	1	---	---
Aluminum	ppm	<b>■ 7</b>	4	---	---
Chromium	ppm	<b>◆ 37</b>	16	---	---
Molybdenum	ppm	<b>■ 7</b>	3	---	---
Nickel	ppm	<b>■ 2</b>	2	---	---
Titanium	ppm	<b>1</b>	<1	---	---
Silver	ppm	<b>0</b>	<1	---	---
Manganese	ppm	<b>■ 22</b>	10	---	---
Vanadium	ppm	<b>&lt;1</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>■ 107</b>	52	---	---
Magnesium	ppm	<b>■ 12</b>	<1	---	---
Zinc	ppm	<b>■ 76</b>	47	---	---
Phosphorus	ppm	<b>■ 1144</b>	750	---	---
Barium	ppm	<b>■ 10</b>	<1	---	---
Boron	ppm	<b>■ 111</b>	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:** 10709587  
**Signed:** Sean Felton  
**Report Date:** 25 Oct 2023



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## GRAPHS

