



# CONSTRUCTION EQUIPMENT

## SPM580384 VOLVO EC480 314333 - REAR LEFT FINAL DRIVE



**Sample No:** VCP417690  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** SPM580384



### SAMPLE INFORMATION

Sample Number	<b>VCP417690</b>	VCP378758	VCP336761	VCP308257
Sample Date	<b>17 Jul 2023</b>	08 Aug 2022	16 Nov 2021	27 Mar 2021
Machine Hours	<b>4033</b>	3256	2161	1093
Oil Hours	<b>0</b>	0	2000	0
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
Sample Status	<b>SEVERE</b>	SEVERE	NORMAL	NORMAL

**ORANGE COUNTY SOLID WASTE**  
 5901 YOUNG PINE ROAD  
 ORLANDO, FL  
 US 32829  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>467</b>	289	253	249
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### CONTAMINATION

Silicon	ppm	<b>739</b>	371	12	6
Sodium	ppm	<b>&lt;1</b>	0	0	<1
Potassium	ppm	<b>1</b>	2	0	1



### WEAR METALS

Iron	ppm	<b>3122</b>	1506	590	230
Copper	ppm	<b>5</b>	3	1	<1
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>66</b>	42	2	<1
Chromium	ppm	<b>42</b>	23	8	4
Molybdenum	ppm	<b>8</b>	5	2	0
Nickel	ppm	<b>3</b>	0	0	0
Titanium	ppm	<b>7</b>	4	<1	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>26</b>	13	6	3
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>96</b>	38	91	12
Magnesium	ppm	<b>18</b>	13	6	0
Zinc	ppm	<b>64</b>	46	64	22
Phosphorus	ppm	<b>1020</b>	932	802	631
Barium	ppm	<b>&lt;1</b>	2	2	0
Boron	ppm	<b>146</b>	156	87	70

### 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. 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:** ORAORL  
**Unique No:** 10566025  
**Signed:** Doug Bogart  
**Report Date:** 25 Jul 2023



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## GRAPHS

