



# CONSTRUCTION EQUIPMENT

## SWO-064209 EPIROC T45 AVO14A1117 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP417783  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** SWO-064209



### SAMPLE INFORMATION

Sample Number	<b>VCP417783</b>	VCP392551	VCP253964	---
Sample Date	<b>24 Jul 2023</b>	16 Mar 2023	25 Jun 2020	---
Machine Hours	<b>11559</b>	10872	8983	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	SEVERE	NORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>292</b>	334	257	---
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### CONTAMINATION

Silicon	ppm	<b>▲ 107</b>	293	60	---
Sodium	ppm	<b>■ &lt;1</b>	4	3	---
Potassium	ppm	<b>■ 2</b>	4	12	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Bearing and/or bushing wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>■ 321</b>	▲ 800	210	---
Copper	ppm	<b>▲ 58</b>	178	19	---
Lead	ppm	<b>■ 0</b>	0	2	---
Tin	ppm	<b>■ 4</b>	▲ 11	0	---
Aluminum	ppm	<b>▲ 7</b>	▲ 14	9	---
Chromium	ppm	<b>■ 5</b>	▲ 11	4	---
Molybdenum	ppm	<b>■ 4</b>	1	0	---
Nickel	ppm	<b>■ &lt;1</b>	3	<1	---
Titanium	ppm	<b>&lt;1</b>	1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>■ 2</b>	7	2	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>■ 95</b>	94	133	---
Magnesium	ppm	<b>■ 15</b>	4	6	---
Zinc	ppm	<b>■ 72</b>	55	65	---
Phosphorus	ppm	<b>■ 893</b>	991	844	---
Barium	ppm	<b>■ 0</b>	0	0	---
Boron	ppm	<b>■ 149</b>	151	91	---

**Depot:** WHIGUN  
**Unique No:** 10577012  
**Signed:** Sean Felton  
**Report Date:** 31 Jul 2023



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## GRAPHS

