



# CONSTRUCTION EQUIPMENT

SPM581123 ALPINE VOLVO EC140EL 311517 - SWING DRIVE



**Sample No:** VCP422853  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** SPM581123 ALPINE



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## SAMPLE INFORMATION

Sample Number	<b>VCP422853</b>	VCP411407	VCP330104	---
Sample Date	<b>28 Jul 2023</b>	13 Apr 2023	23 Mar 2022	---
Machine Hours	<b>2507</b>	2262	1740	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---



## OIL CONDITION

Visc @ 40°C	cSt	<b>152</b>	151	150	---
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## CONTAMINATION

Silicon	ppm	<b>4</b>	4	28	---
Sodium	ppm	<b>0</b>	2	8	---
Potassium	ppm	<b>&lt;1</b>	0	0	---



## WEAR METALS

Iron	ppm	<b>55</b>	85	124	---
Copper	ppm	<b>5</b>	6	8	---
Lead	ppm	<b>0</b>	0	0	---
Tin	ppm	<b>0</b>	0	0	---
Aluminum	ppm	<b>&lt;1</b>	<1	2	---
Chromium	ppm	<b>&lt;1</b>	<1	1	---
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	---
Nickel	ppm	<b>&lt;1</b>	0	<1	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	2	2	---
Vanadium	ppm	<b>0</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>19</b>	20	23	---
Magnesium	ppm	<b>15</b>	4	0	---
Zinc	ppm	<b>26</b>	26	11	---
Phosphorus	ppm	<b>854</b>	891	907	---
Barium	ppm	<b>2</b>	<1	0	---
Boron	ppm	<b>153</b>	147	145	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO8885  
**Unique No:** 10602469  
**Signed:** Wes Davis  
**Report Date:** 12 Aug 2023



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## GRAPHS

