



# CONSTRUCTION EQUIPMENT

## X48144 VOLVO EC380EL 311913 - SWING DRIVE



**Sample No:** VCP454689  
**Oil Type:** GEAR OIL SAE 75W80  
**Job No:** X48144



### SAMPLE INFORMATION

Sample Number	<b>VCP454689</b>	VCP439332	VCP340406	---
Sample Date	<b>08 May 2024</b>	21 Mar 2024	23 Jun 2022	---
Machine Hours	<b>6192</b>	6188	4252	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	N/A	N/A	---
Sample Status	<b>NORMAL</b>	SEVERE	ABNORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>165</b>	159	141	---
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### CONTAMINATION

Water	%	<b>NEG</b>	▲ 5.46	▲ 0.876	---
Silicon	ppm	<b>22</b>	24	17	---
Sodium	ppm	<b>2</b>	<1	0	---
Potassium	ppm	<b>&lt;1</b>	2	<1	---

### 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. Confirm oil type. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>95</b>	1190	957	---
Copper	ppm	<b>20</b>	▲ 67	▲ 57	---
Lead	ppm	<b>0</b>	<1	<1	---
Tin	ppm	<b>0</b>	2	0	---
Aluminum	ppm	<b>2</b>	5	4	---
Chromium	ppm	<b>2</b>	10	7	---
Molybdenum	ppm	<b>0</b>	0	<1	---
Nickel	ppm	<b>0</b>	<1	0	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>3</b>	8	6	---
Vanadium	ppm	<b>&lt;1</b>	<1	0	---



### ADDITIVES

Calcium	ppm	<b>9</b>	58	26	---
Magnesium	ppm	<b>&lt;1</b>	4	1	---
Zinc	ppm	<b>32</b>	86	67	---
Phosphorus	ppm	<b>303</b>	966	919	---
Barium	ppm	<b>4</b>	0	0	---
Boron	ppm	<b>1</b>	25	30	---

**Depot:** VOLV00129  
**Unique No:** 11030531  
**Signed:** Don Baldrige  
**Report Date:** 16 May 2024



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## GRAPHS

