



# CONSTRUCTION EQUIPMENT

## SW-29976-2 CASTLE VOLVO EC480E 314667 - LEFT SWING DRIVE



**Sample No:** VCP440397  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** SW-29976-2 CASTLE



### SAMPLE INFORMATION

Sample Number	<b>VCP440397</b>	VCP412483	VCP400937	VCP396451
Sample Date	<b>19 Feb 2024</b>	11 Sep 2023	24 Apr 2023	17 Nov 2022
Machine Hours	<b>5031</b>	4022	3144	2134
Oil Hours	<b>1000</b>	1000	1000	1000
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>124</b>	161	161	151
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>3</b>	5	3	8
Sodium	ppm	<b>&lt;1</b>	1	<1	<1
Potassium	ppm	<b>1</b>	<1	<1	<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. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>46</b>	160	106	481
Copper	ppm	<b>3</b>	4	3	9
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	<1	<1	1
Chromium	ppm	<b>&lt;1</b>	2	2	7
Molybdenum	ppm	<b>15</b>	34	62	2
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	2	2	5
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>204</b>	6	14	6
Magnesium	ppm	<b>146</b>	0	2	1
Zinc	ppm	<b>242</b>	0	30	40
Phosphorus	ppm	<b>498</b>	931	894	987
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>26</b>	156	160	134

**Depot:** VOLVO8770  
**Unique No:** 10898663  
**Signed:** Jonathan Hester  
**Report Date:** 28 Feb 2024



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## GRAPHS

