



# CONSTRUCTION EQUIPMENT

SW-21054-2 CASTLE VA VOLVO EC350EL 310786 - SWING DRIVE



**Sample No:** VCP395801  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** SW-21054-2 CASTLE VA



## SAMPLE INFORMATION

Sample Number	<b>VCP395801</b>	VCP383487	VCP337510	VCP346989
Sample Date	<b>06 Jul 2023</b>	06 Jan 2023	17 Aug 2022	14 Mar 2022
Machine Hours	<b>7380</b>	6328	5369	4344
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>164</b>	178	152	171
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## CONTAMINATION

Silicon	ppm	<b>5</b>	10	7	14
Sodium	ppm	<b>0</b>	0	3	<1
Potassium	ppm	<b>&lt;1</b>	<1	4	0

## 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>117</b>	75	122	220
Copper	ppm	<b>3</b>	2	4	6
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>&lt;1</b>	0	2	<1
Chromium	ppm	<b>2</b>	<1	2	3
Molybdenum	ppm	<b>87</b>	189	<1	0
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>2</b>	<1	2	4
Vanadium	ppm	<b>0</b>	0	<1	0



## ADDITIVES

Calcium	ppm	<b>54</b>	103	6	9
Magnesium	ppm	<b>&lt;1</b>	2	2	0
Zinc	ppm	<b>51</b>	69	18	14
Phosphorus	ppm	<b>929</b>	660	934	393
Barium	ppm	<b>0</b>	0	<1	0
Boron	ppm	<b>133</b>	51	131	7

**Depot:** VOLVO8770  
**Unique No:** 10560374  
**Signed:** Wes Davis  
**Report Date:** 17 Jul 2023



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## GRAPHS

