



# CONSTRUCTION EQUIPMENT

## 564312 VOLVO ECR145 315091 - REAR LEFT FINAL DRIVE



**Sample No:** VCP450721  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 564312



### SAMPLE INFORMATION

Sample Number	<b>VCP450721</b>	VCP437457	VCP406588	VCP355588
Sample Date	<b>21 May 2024</b>	10 Jan 2024	10 Apr 2023	24 Mar 2022
Machine Hours	<b>3348</b>	2869	1864	973
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Changed	Not Chngd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

**JON M HALL COMPANY**  
 1920 BOOTHE CIRCLE SUITE 110  
 LONGWOOD, FL  
 US 32750  
 Contact: SERVICE MANAGER



### OIL CONDITION

Visc @ 40°C	cSt	<b>259</b>	291	277	278
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T: (407)215-0410  
 F:



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>22</b>	22	6	4
Sodium	ppm	<b>&lt;1</b>	0	2	<1
Potassium	ppm	<b>1</b>	0	0	0

**Diagnosis**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor. The tin level is abnormal. All other 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>192</b>	223	252	147
Copper	ppm	<b>&lt;1</b>	2	0	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>▲ 15</b>	▲ 14	▲ 21	▲ 16
Aluminum	ppm	<b>2</b>	3	0	<1
Chromium	ppm	<b>4</b>	3	2	2
Molybdenum	ppm	<b>1</b>	2	<1	1
Nickel	ppm	<b>3</b>	3	<1	<1
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>&lt;1</b>	0	0	<1
Manganese	ppm	<b>2</b>	3	3	2
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>30</b>	103	37	47
Magnesium	ppm	<b>8</b>	16	11	13
Zinc	ppm	<b>22</b>	63	46	43
Phosphorus	ppm	<b>821</b>	991	860	925
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>127</b>	149	111	135

**Depot:** JONLON  
**Unique No:** 11049305  
**Signed:** Don Baldrige  
**Report Date:** 30 May 2024

**VOLVO** GRAPHS

