



# CONSTRUCTION EQUIPMENT

## A12574 VOLVO ECR145C 110642 - REAR LEFT FINAL DRIVE



**Sample No:** VCP444083  
**Oil Type:** MOBIL MOBILUBE HD 80W90  
**Job No:** A12574



### SAMPLE INFORMATION

Sample Number	<b>VCP444083</b>	VCP383608	VCBM001649	VCP279353
Sample Date	<b>08 May 2024</b>	21 Oct 2022	02 Feb 2022	09 Apr 2021
Machine Hours	<b>8155</b>	7645	7055	6495
Oil Hours	<b>1500</b>	1000	500	1000
Oil Changed	<b>Changed</b>	Changed	Not Changd	Changed
Sample Status	<b>NORMAL</b>	ATTENTION	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<span style="color: green;">■</span> <b>296</b>	<span style="color: orange;">●</span> 147	<span style="color: yellow;">▲</span> 149	<span style="color: green;">■</span> 236
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<span style="color: green;">■</span> <b>54</b>	<span style="color: green;">■</span> 46	<span style="color: green;">■</span> 41	<span style="color: yellow;">▲</span> 136
Sodium	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 6
Potassium	ppm	<span style="color: green;">■</span> <b>5</b>	<span style="color: green;">■</span> 3	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 10

### 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	<span style="color: green;">■</span> <b>188</b>	<span style="color: green;">■</span> 216	<span style="color: green;">■</span> 204	<span style="color: green;">■</span> 406
Copper	ppm	<span style="color: green;">■</span> <b>2</b>	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> 1
Lead	ppm	<span style="color: green;">■</span> <b>&lt;1</b>	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> <1
Tin	ppm	<span style="color: green;">■</span> <b>&lt;1</b>	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> <1
Aluminum	ppm	<span style="color: green;">■</span> <b>11</b>	<span style="color: green;">■</span> 9	<span style="color: green;">■</span> 8	<span style="color: orange;">●</span> 33
Chromium	ppm	<span style="color: green;">■</span> <b>2</b>	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 5
Molybdenum	ppm	<span style="color: green;">■</span> <b>2</b>	<span style="color: green;">■</span> 4	<span style="color: green;">■</span> 4	<span style="color: green;">■</span> 9
Nickel	ppm	<span style="color: green;">■</span> <b>2</b>	0	<1	4
Titanium	ppm	<b>1</b>	<1	<1	2
Silver	ppm	<1	0	0	<1
Manganese	ppm	<span style="color: green;">■</span> <b>2</b>	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 4
Vanadium	ppm	<1	0	0	<1



### ADDITIVES

Calcium	ppm	<span style="color: green;">■</span> <b>96</b>	<span style="color: green;">■</span> 72	<span style="color: green;">■</span> 50	<span style="color: green;">■</span> 201
Magnesium	ppm	<span style="color: green;">■</span> <b>7</b>	<span style="color: green;">■</span> 13	<span style="color: green;">■</span> 12	<span style="color: green;">■</span> 54
Zinc	ppm	<span style="color: green;">■</span> <b>40</b>	<span style="color: green;">■</span> 42	<span style="color: green;">■</span> 25	<span style="color: green;">■</span> 154
Phosphorus	ppm	<span style="color: green;">■</span> <b>597</b>	<span style="color: green;">■</span> 652	<span style="color: green;">■</span> 659	<span style="color: green;">■</span> 878
Barium	ppm	<span style="color: green;">■</span> <b>0</b>	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0
Boron	ppm	<span style="color: green;">■</span> <b>28</b>	<span style="color: green;">■</span> 31	<span style="color: green;">■</span> 33	<span style="color: green;">■</span> 134

**Depot:** JAAPHI  
**Unique No:** 11033061  
**Signed:** Sean Felton  
**Report Date:** 20 May 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

