



# CONSTRUCTION EQUIPMENT

## A12681 VOLVO ECR235CL 110022 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP452780  
**Oil Type:** MOBIL MOBILUBE HD PLUS 85W140  
**Job No:** A12681



### SAMPLE INFORMATION

Sample Number	<b>VCP452780</b>	VCP354072	VCP341022	VCP223343
Sample Date	<b>16 May 2024</b>	26 Aug 2022	07 Dec 2021	23 Jul 2018
Machine Hours	<b>10505</b>	9785	9125	6740
Oil Hours	<b>700</b>	2000	1500	500
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	SEVERE	SEVERE	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>321</b>	326	331	247.0
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>488</b>	453	1592	20
Sodium	ppm	<b>7</b>	4	26	4
Potassium	ppm	<b>25</b>	23	93	5

### Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>1985</b>	1133	3915	125
Copper	ppm	<b>6</b>	3	10	<1
Lead	ppm	<b>&lt;1</b>	<1	3	0
Tin	ppm	<b>0</b>	0	3	0
Aluminum	ppm	<b>67</b>	67	208	3
Chromium	ppm	<b>14</b>	9	35	3
Molybdenum	ppm	<b>3</b>	2	7	3
Nickel	ppm	<b>2</b>	0	4	<1
Titanium	ppm	<b>8</b>	7	25	<1
Silver	ppm	<b>&lt;1</b>	<1	<1	0
Manganese	ppm	<b>13</b>	8	29	<1
Vanadium	ppm	<b>&lt;1</b>	<1	<1	0



### ADDITIVES

Calcium	ppm	<b>57</b>	53	172	178
Magnesium	ppm	<b>15</b>	13	50	12
Zinc	ppm	<b>32</b>	19	82	96
Phosphorus	ppm	<b>497</b>	490	697	810
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>48</b>	66	100	120

**Depot:** JAAPHI  
**Unique No:** 11049332  
**Signed:** Don Baldrige  
**Report Date:** 30 May 2024



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## VOLVO GRAPHS

