



# CONSTRUCTION EQUIPMENT

## SW0065921 VOLVO EC300ELR 311843 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP422345  
**Oil Type:** COWIN 80W90  
**Job No:** SW0065921



### SAMPLE INFORMATION

Sample Number	<b>VCP422345</b>	VCP421750	VCP369226	VCP373116
Sample Date	<b>22 Sep 2023</b>	21 Apr 2023	21 Nov 2022	17 Jun 2022
Machine Hours	<b>5320</b>	4800	4347	3850
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>SEVERE</b>	SEVERE	SEVERE	SEVERE

### SAIIA CONSTRUCTION LLC

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### OIL CONDITION

Visc @ 40°C	cSt	<b>143</b>	134	134	138
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### CONTAMINATION

Water	%	---	---	---	<b>0.324</b>
Silicon	ppm	<b>625</b>	456	291	796
Sodium	ppm	<b>11</b>	15	8	9
Potassium	ppm	<b>14</b>	10	8	17



### WEAR METALS

Iron	ppm	<b>2471</b>	1170	1180	2090
Copper	ppm	<b>5</b>	2	2	5
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>96</b>	99	59	111
Chromium	ppm	<b>26</b>	18	16	24
Molybdenum	ppm	<b>8</b>	8	6	<1
Nickel	ppm	<b>3</b>	1	<1	0
Titanium	ppm	<b>9</b>	8	5	12
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>17</b>	11	9	16
Vanadium	ppm	<b>&lt;1</b>	<1	<1	0



### ADDITIVES

Calcium	ppm	<b>212</b>	240	185	304
Magnesium	ppm	<b>34</b>	46	33	22
Zinc	ppm	<b>63</b>	75	59	45
Phosphorus	ppm	<b>961</b>	921	953	880
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>164</b>	150	144	160

### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** SAIBIR  
**Unique No:** 10662688  
**Signed:** Doug Bogart  
**Report Date:** 27 Sep 2023



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## VOLVO GRAPHS

