



# CONSTRUCTION EQUIPMENT

SW0065921 VOLVO EC300ELR 311843 - REAR LEFT FINAL DRIVE



**Sample No:** VCP421721  
**Oil Type:** COWIN 80W90  
**Job No:** SW0065921



## SAMPLE INFORMATION

Sample Number	<b>VCP421721</b>	VCP421748	VCP369225	VCP373118
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**  
4400 LEWISBURG RD  
BIRMINGHAM, AL  
US 35207  
Contact: STEPHANI BRITTON  
sbritton@saiia.com;doug.bogart@wearcheck.com  
T: (205)943-2268  
F: (205)943-2269



## OIL CONDITION

Visc @ 40°C	cSt	<b>143</b>	133	136	133
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## CONTAMINATION

Water	%	---	---	---	<b>0.241</b>
Silicon	ppm	<b>226</b>	404	287	625
Sodium	ppm	<b>3</b>	8	6	3
Potassium	ppm	<b>8</b>	9	8	15

## 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.



## WEAR METALS

Iron	ppm	<b>1434</b>	1174	1264	1770
Copper	ppm	<b>3</b>	3	3	4
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>38</b>	76	50	87
Chromium	ppm	<b>11</b>	15	13	19
Molybdenum	ppm	<b>6</b>	7	6	0
Nickel	ppm	<b>1</b>	<1	<1	0
Titanium	ppm	<b>4</b>	7	5	9
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>9</b>	10	9	14
Vanadium	ppm	<b>&lt;1</b>	<1	<1	0



## ADDITIVES

Calcium	ppm	<b>103</b>	177	126	146
Magnesium	ppm	<b>27</b>	42	33	19
Zinc	ppm	<b>61</b>	81	63	44
Phosphorus	ppm	<b>974</b>	928	977	911
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>139</b>	149	143	179

**Depot:** SAIBIR  
**Unique No:** 10662687  
**Signed:** Doug Bogart  
**Report Date:** 27 Sep 2023



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## GRAPHS

