



# CONSTRUCTION EQUIPMENT

## SWO-068407 VOLVO EC380EL 310021 - SWING DRIVE



**Sample No:** VCP428702  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** SWO-068407



### SAMPLE INFORMATION

Sample Number	<b>VCP428702</b>	VCP428933	VCP407511	VCP356243
Sample Date	<b>21 Dec 2023</b>	07 Sep 2023	18 May 2023	03 Nov 2022
Machine Hours	<b>10648</b>	10247	9662	9133
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Not Changd	Changed
Sample Status	<b>SEVERE</b>	SEVERE	SEVERE	SEVERE

### WHITAKER CONTRACTING

692 CONVICT CAMP RD  
 GUNTERVILLE, AL  
 US 35976  
 Contact: BROTHER WHITAKER  
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 T: (256)298-3905  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>267</b>	278	264	247
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### CONTAMINATION

Water	%	<b>3.25</b>	6.80	5.11	2.05
Silicon	ppm	<b>16</b>	26	32	19
Sodium	ppm	<b>0</b>	5	7	5
Potassium	ppm	<b>0</b>	6	2	<1

### Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The copper level is abnormal. All other component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.



### WEAR METALS

Iron	ppm	<b>302</b>	524	423	309
Copper	ppm	<b>122</b>	114	109	86
Lead	ppm	<b>0</b>	2	<1	1
Tin	ppm	<b>0</b>	2	0	<1
Aluminum	ppm	<b>5</b>	7	12	7
Chromium	ppm	<b>1</b>	8	7	5
Molybdenum	ppm	<b>0</b>	4	4	3
Nickel	ppm	<b>0</b>	<1	1	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>2</b>	12	10	7
Vanadium	ppm	<b>0</b>	<1	<1	0



### ADDITIVES

Calcium	ppm	<b>83</b>	120	108	94
Magnesium	ppm	<b>14</b>	23	21	18
Zinc	ppm	<b>187</b>	235	211	180
Phosphorus	ppm	<b>877</b>	878	841	763
Barium	ppm	<b>5</b>	0	3	0
Boron	ppm	<b>79</b>	125	111	89

**Depot:** WHIGUN  
**Unique No:** 10809843  
**Signed:** Jonathan Hester  
**Report Date:** 04 Jan 2024



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## GRAPHS

