



# CONSTRUCTION EQUIPMENT

## SWO-068391 VOLVO A45G 352969 - BOGIE/CENTER AXLE



**Sample No:** VCP414805  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SWO-068391



### SAMPLE INFORMATION

Sample Number	<b>VCP414805</b>	VCP405830	VCP419124	VCP403248
Sample Date	<b>20 Dec 2023</b>	19 Sep 2023	21 Jun 2023	24 Jan 2023
Machine Hours	<b>2980</b>	2491	2003	1469
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	ATTENTION

**SAIIA CONSTRUCTION LLC**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 50.9</b>	▲ 50.5	▲ 50.3	▲ 51.16
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>■ 0</b>	■ 5	■ 4	■ 2
Sodium	ppm	<b>■ 0</b>	■ 2	■ 3	■ 1
Potassium	ppm	<b>■ 0</b>	■ 3	■ 4	■ 3

**Diagnosis**  
 No corrective action is recommended at this time. 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 oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.



### WEAR METALS

Iron	ppm	<b>■ 189</b>	■ 278	■ 220	■ 58
Copper	ppm	<b>■ 0</b>	■ 2	■ 2	■ 1
Lead	ppm	<b>■ 0</b>	■ 0	■ 0	■ <1
Tin	ppm	<b>■ 0</b>	■ 0	■ 0	■ <1
Aluminum	ppm	<b>■ 2</b>	■ 0	■ 3	■ <1
Chromium	ppm	<b>■ 1</b>	■ 4	■ 3	■ <1
Molybdenum	ppm	<b>■ 3</b>	■ 13	■ 12	■ 8
Nickel	ppm	<b>■ 0</b>	■ 1	■ 1	■ <1
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>■ 3</b>	■ 12	■ 10	■ 5
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>■ 129</b>	■ 128	■ 147	■ 116
Magnesium	ppm	<b>■ 0</b>	■ 2	■ 4	■ 2
Zinc	ppm	<b>■ 56</b>	■ 64	■ 68	■ 59
Phosphorus	ppm	<b>■ 2543</b>	■ 2337	■ 2372	■ 2358
Barium	ppm	<b>■ 4</b>	■ 0	■ 0	■ <1
Boron	ppm	<b>■ 245</b>	■ 245	■ 254	■ 263

**Depot:** SAIBIR  
**Unique No:** 10809850  
**Signed:** Jonathan Hester  
**Report Date:** 04 Jan 2024



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## GRAPHS

