



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352704 - FRONT AXLE



**Sample No:** VCP431883  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP431883</b>	VCP389301	VCP383499	VCP393933
Sample Date	<b>06 Nov 2023</b>	17 Jul 2023	27 Apr 2023	08 Feb 2023
Machine Hours	<b>4902</b>	4405	3920	3450
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>ATTENTION</b>	ATTENTION	NORMAL	ATTENTION

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

Visc @ 40°C	cSt	<b>▲ 297</b>	▲ 296	49.3	▲ 49.4
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ <b>4</b>	■ 5	■ 3	■ 3
Sodium	ppm	■ <b>&lt;1</b>	■ <1	■ 0	■ 2
Potassium	ppm	■ <b>&lt;1</b>	■ 0	■ 5	■ 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 higher than normal. Confirm oil type.



### WEAR METALS

Iron	ppm	■ <b>47</b>	■ 82	■ 283	■ 196
Copper	ppm	■ <b>&lt;1</b>	■ <1	■ 2	■ 1
Lead	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Tin	ppm	■ <b>&lt;1</b>	■ 0	■ 0	■ 0
Aluminum	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Chromium	ppm	■ <b>&lt;1</b>	■ 1	■ 3	■ 2
Molybdenum	ppm	■ <b>1</b>	■ 3	■ 4	■ 3
Nickel	ppm	■ <b>&lt;1</b>	■ 0	■ <1	■ 1
Titanium	ppm	■ <b>0</b>	<1	0	0
Silver	ppm	■ <b>0</b>	0	0	<1
Manganese	ppm	■ <b>2</b>	■ 2	■ 9	■ 8
Vanadium	ppm	■ <b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	■ <b>77</b>	■ 80	■ 96	■ 92
Magnesium	ppm	■ <b>21</b>	■ 19	■ 2	■ 2
Zinc	ppm	■ <b>47</b>	■ 54	■ 48	■ 47
Phosphorus	ppm	■ <b>1059</b>	■ 1067	■ 2328	■ 2223
Barium	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Boron	ppm	■ <b>191</b>	■ 207	■ 235	■ 218

**Depot:** SAIBIR  
**Unique No:** 10749076  
**Signed:** Don Baldrige  
**Report Date:** 20 Nov 2023



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## VOLVO GRAPHS

