



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 342096 - FRONT AXLE



**Sample No:** VCP435397  
**Oil Type:** GEAR OIL SAE 80W140  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP435397</b>	VCP415568	VCP404584	VCP392778
Sample Date	<b>13 Nov 2023</b>	22 Aug 2023	08 May 2023	16 Dec 2022
Machine Hours	<b>9583</b>	9107	8608	8113
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**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>292</b>	292	293	49.6
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### CONTAMINATION

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

### Diagnosis

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 condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>66</b>	67	56	100
Copper	ppm	<b>&lt;1</b>	<1	0	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>1</b>	2	<1	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>2</b>	1	2	<1
Nickel	ppm	<b>0</b>	0	1	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	1	1	2
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>79</b>	104	83	163
Magnesium	ppm	<b>16</b>	19	17	1
Zinc	ppm	<b>46</b>	60	48	41
Phosphorus	ppm	<b>1100</b>	1115	1087	2079
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>190</b>	206	159	230

**Depot:** SAIBIR  
**Unique No:** 10754613  
**Signed:** Jonathan Hester  
**Report Date:** 27 Nov 2023



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## VOLVO GRAPHS

