



# CONSTRUCTION EQUIPMENT

## SWO-070857 VOLVO A45G 352704 - BOGIE/CENTER AXLE



**Sample No:** VCP445577  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SWO-070857



### SAMPLE INFORMATION

Sample Number	<b>VCP445577</b>	VCP431884	VCP389229	VCP402876
Sample Date	<b>03 Apr 2024</b>	06 Nov 2023	17 Jul 2023	27 Apr 2023
Machine Hours	<b>5412</b>	4902	4405	3920
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ABNORMAL	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>290</b>	289	296	48.9
-------------	-----	------------	-----	-----	------



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>6</b>	4	6	3
Sodium	ppm	<b>&lt;1</b>	<1	<1	0
Potassium	ppm	<b>2</b>	0	0	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>58</b>	44	173	177
Copper	ppm	<b>1</b>	<1	<1	3
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>1</b>	0	0	0
Aluminum	ppm	<b>2</b>	<1	0	0
Chromium	ppm	<b>2</b>	<1	2	2
Molybdenum	ppm	<b>3</b>	1	3	4
Nickel	ppm	<b>1</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>3</b>	2	4	7
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>85</b>	78	79	124
Magnesium	ppm	<b>22</b>	21	19	1
Zinc	ppm	<b>66</b>	48	56	60
Phosphorus	ppm	<b>1193</b>	1076	1048	2320
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>197</b>	193	208	253

**Depot:** SAIBIR  
**Unique No:** 10968207  
**Signed:** Jonathan Hester  
**Report Date:** 12 Apr 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

