



# CONSTRUCTION EQUIPMENT

## SWO-070857 VOLVO A45G 352704 - REAR AXLE



**Sample No:** VCP444066  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SWO-070857



### SAMPLE INFORMATION

Sample Number	<b>VCP444066</b>	VCP431882	VCP389302	VCP382598
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	ATTENTION	NORMAL

### SAIIA CONSTRUCTION LLC

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### OIL CONDITION

Visc @ 40°C	cSt	<b>285</b>	287	296	50.2
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>6</b>	4	5	4
Sodium	ppm	<b>&lt;1</b>	<1	<1	0
Potassium	ppm	<b>2</b>	<1	0	6



### WEAR METALS

Iron	ppm	<b>69</b>	42	96	283
Copper	ppm	<b>2</b>	1	0	3
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>2</b>	<1	0	0
Chromium	ppm	<b>2</b>	<1	1	4
Molybdenum	ppm	<b>3</b>	1	3	5
Nickel	ppm	<b>1</b>	<1	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>4</b>	2	2	10
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>122</b>	92	81	108
Magnesium	ppm	<b>22</b>	21	20	<1
Zinc	ppm	<b>83</b>	57	54	53
Phosphorus	ppm	<b>1187</b>	1092	1071	2335
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>195</b>	181	212	268

### 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.

**Depot:** SAIBIR  
**Unique No:** 10968208  
**Signed:** Doug Bogart  
**Report Date:** 17 Apr 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

