



# CONSTRUCTION EQUIPMENT

SWO-071765 VOLVO A45G 342546 - FRONT AXLE



**Sample No:** VCP450896  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** SWO-071765



## SAMPLE INFORMATION

Sample Number	<b>VCP450896</b>	VCP432932	VCP417747	VCP402208
Sample Date	<b>07 May 2024</b>	04 Oct 2023	19 Jun 2023	28 Feb 2023
Machine Hours	<b>8542</b>	8046	7553	7072
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	ATTENTION	ATTENTION	ATTENTION

### 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>317</b>	310	317	319
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## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>4</b>	3	3	2
Sodium	ppm	<b>0</b>	0	1	<1
Potassium	ppm	<b>2</b>	<1	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>87</b>	63	69	51
Copper	ppm	<b>1</b>	<1	<1	0
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>2</b>	0	3	<1
Chromium	ppm	<b>2</b>	1	1	<1
Molybdenum	ppm	<b>4</b>	3	3	2
Nickel	ppm	<b>&lt;1</b>	<1	0	0
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>3</b>	2	3	2
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>215</b>	109	117	114
Magnesium	ppm	<b>31</b>	27	32	29
Zinc	ppm	<b>118</b>	77	77	74
Phosphorus	ppm	<b>1086</b>	998	1021	873
Barium	ppm	<b>2</b>	1	0	0
Boron	ppm	<b>206</b>	162	189	181

**Depot:** SAIBIR  
**Unique No:** 11021938  
**Signed:** Sean Felton  
**Report Date:** 14 May 2024

**VOLVO** **GRAPHS**

