



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 325973 (S/N 352973) - FRONT AXLE



**Sample No:** VCP454873  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP454873</b>	VCP445302	VCP431972	VCP427432
Sample Date	<b>25 Jun 2024</b>	07 Mar 2024	08 Nov 2023	24 Aug 2023
Machine Hours	<b>4536</b>	4034	3521	3044
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
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>266</b>	51.0	50.7	50.8
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>6</b>	4	5	5
Sodium	ppm	<b>2</b>	2	2	0
Potassium	ppm	<b>2</b>	2	2	3

### 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>63</b>	325	297	327
Copper	ppm	<b>2</b>	4	3	1
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	0	0	0
Chromium	ppm	<b>&lt;1</b>	3	4	4
Molybdenum	ppm	<b>7</b>	8	6	9
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	2	0	0
Manganese	ppm	<b>2</b>	9	9	9
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>213</b>	156	148	123
Magnesium	ppm	<b>34</b>	0	1	0
Zinc	ppm	<b>133</b>	58	65	58
Phosphorus	ppm	<b>1155</b>	2499	2294	2244
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>167</b>	223	193	217

**Depot:** SAIBIR  
**Unique No:** 11114010  
**Signed:** Don Baldrige  
**Report Date:** 10 Jul 2024



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## GRAPHS

