



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352969 - FRONT AXLE



**Sample No:** VCP433938  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP433938</b>	VCP416635	VCP403264	VCP365966
Sample Date	<b>19 Sep 2023</b>	21 Jun 2023	24 Jan 2023	30 Sep 2022
Machine Hours	<b>2491</b>	2003	1469	975
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	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>▲ 50.9</b>	▲ 50.9	▲ 51.98	■ 134
-------------	-----	---------------	--------	---------	-------



### CONTAMINATION

Silicon	ppm	■ <b>4</b>	■ 3	■ 2	■ 3
Sodium	ppm	■ <b>1</b>	■ 3	■ 2	■ 2
Potassium	ppm	■ <b>3</b>	■ 4	■ 2	■ 2



### WEAR METALS

Iron	ppm	■ <b>283</b>	■ 141	■ 69	■ 126
Copper	ppm	■ <b>1</b>	■ 1	■ <1	■ <1
Lead	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Tin	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Aluminum	ppm	■ <b>0</b>	■ 3	■ <1	■ 0
Chromium	ppm	■ <b>4</b>	■ 2	■ <1	■ 2
Molybdenum	ppm	■ <b>6</b>	■ 4	■ 4	■ 4
Nickel	ppm	■ <b>&lt;1</b>	■ <1	■ 0	■ <1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	■ <b>11</b>	■ 7	■ 6	■ 8
Vanadium	ppm	<b>0</b>	0	0	<1



### ADDITIVES

Calcium	ppm	■ <b>117</b>	■ 138	■ 117	■ 112
Magnesium	ppm	■ <b>1</b>	■ 4	■ <1	■ 0
Zinc	ppm	■ <b>54</b>	■ 57	■ 59	■ 22
Phosphorus	ppm	■ <b>2306</b>	■ 2311	■ 2255	■ 2403
Barium	ppm	■ <b>0</b>	■ 0	■ <1	■ 0
Boron	ppm	■ <b>215</b>	■ 234	■ 273	■ 278

### 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 lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

**Depot:** SAIBIR  
**Unique No:** 10662679  
**Signed:** Doug Bogart  
**Report Date:** 27 Sep 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

