



# CONSTRUCTION EQUIPMENT

SWO-067073 VOLVO A45G 352702 - FRONT AXLE



**Sample No:** VCP428899  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SWO-067073



## SAMPLE INFORMATION

Sample Number	<b>VCP428899</b>	VCP427478	VCP423804	VCP393935
Sample Date	<b>07 Nov 2023</b>	15 Aug 2023	18 May 2023	20 Dec 2022
Machine Hours	<b>3950</b>	3389	2923	2406
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	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>51.7</b>	49.6	49.9	▲ 49.7
-------------	-----	-------------	------	------	--------



## CONTAMINATION

Silicon	ppm	■ <b>5</b>	■ 4	■ 5	■ 3
Sodium	ppm	■ <b>&lt;1</b>	■ <1	■ 2	■ <1
Potassium	ppm	■ <b>3</b>	■ 3	■ 4	■ 3



## WEAR METALS

Iron	ppm	■ <b>253</b>	■ 176	■ 356	■ 101
Copper	ppm	■ <b>1</b>	■ 1	■ 2	■ 1
Lead	ppm	■ <b>&lt;1</b>	■ 0	■ 0	■ 0
Tin	ppm	■ <b>&lt;1</b>	■ <1	■ 0	■ 0
Aluminum	ppm	■ <b>0</b>	■ 1	■ 0	■ 0
Chromium	ppm	■ <b>3</b>	■ 2	■ 5	■ 1
Molybdenum	ppm	■ <b>6</b>	■ 4	■ 11	■ 2
Nickel	ppm	■ <b>&lt;1</b>	■ <1	■ 1	■ <1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	■ <b>9</b>	■ 7	■ 11	■ 4
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	■ <b>100</b>	■ 96	■ 96	■ 108
Magnesium	ppm	■ <b>2</b>	■ <1	■ 2	■ 2
Zinc	ppm	■ <b>48</b>	■ 43	■ 37	■ 42
Phosphorus	ppm	■ <b>2341</b>	■ 2472	■ 2434	■ 2308
Barium	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Boron	ppm	■ <b>178</b>	■ 232	■ 222	■ 198

## 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.

**Depot:** SAIBIR  
**Unique No:** 10739708  
**Signed:** Sean Felton  
**Report Date:** 15 Nov 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

