



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 342095 - FRONT AXLE



**Sample No:** VCP414361  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP414361</b>	VCP402771	VCP388271	VCP365249
Sample Date	<b>26 Oct 2023</b>	02 May 2023	13 Dec 2022	18 Aug 2022
Machine Hours	<b>8727</b>	7961	7510	6994
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

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### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 305</b>	▲ 296	▲ 305	■ 139
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### CONTAMINATION

Silicon	ppm	<b>■ 2</b>	■ 2	■ <1	■ 2
Sodium	ppm	<b>■ 0</b>	■ 0	■ 0	■ <1
Potassium	ppm	<b>■ &lt;1</b>	■ <1	■ 0	■ 0



### WEAR METALS

Iron	ppm	<b>■ 31</b>	■ 25	■ 6	■ 52
Copper	ppm	<b>■ &lt;1</b>	■ <1	■ 0	■ <1
Lead	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Tin	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Aluminum	ppm	<b>■ 2</b>	■ <1	■ 0	■ <1
Chromium	ppm	<b>■ &lt;1</b>	■ <1	■ 0	■ <1
Molybdenum	ppm	<b>■ 3</b>	■ 3	■ 3	■ <1
Nickel	ppm	<b>■ 0</b>	■ <1	■ 0	■ 0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>■ 0</b>	■ <1	■ <1	■ 2
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>■ 157</b>	■ 162	■ 158	■ 25
Magnesium	ppm	<b>■ 36</b>	■ 35	■ 34	■ <1
Zinc	ppm	<b>■ 120</b>	■ 123	■ 116	■ 15
Phosphorus	ppm	<b>■ 1023</b>	■ 990	■ 949	■ 953
Barium	ppm	<b>■ 5</b>	■ 0	■ 0	■ <1
Boron	ppm	<b>■ 183</b>	■ 166	■ 160	■ 226

### 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 oil viscosity is higher than normal. Confirm oil type.

**Depot:** SAIBIR  
**Unique No:** 10729178  
**Signed:** Don Baldrige  
**Report Date:** 09 Nov 2023



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## GRAPHS

