



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352736 - REAR AXLE



**Sample No:** VCP450887  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP450887</b>	VCP442554	VCP431967	VCP425072
Sample Date	<b>06 Jun 2024</b>	27 Feb 2024	25 Oct 2023	01 Aug 2023
Machine Hours	<b>5397</b>	4888	4412	7719
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>287</b>	283	290	151
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>5</b>	5	5	9
Sodium	ppm	<b>0</b>	1	0	6
Potassium	ppm	<b>1</b>	0	2	4

### 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. Confirm oil type. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>51</b>	53	34	359
Copper	ppm	<b>&lt;1</b>	<1	<1	2
Lead	ppm	<b>&lt;1</b>	2	0	<1
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>2</b>	0	1	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	6
Molybdenum	ppm	<b>21</b>	19	21	8
Nickel	ppm	<b>0</b>	0	<1	1
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	1	<1	12
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>225</b>	258	235	2767
Magnesium	ppm	<b>29</b>	29	30	26
Zinc	ppm	<b>131</b>	129	128	1155
Phosphorus	ppm	<b>919</b>	1031	1090	1108
Barium	ppm	<b>0</b>	0	0	3
Boron	ppm	<b>188</b>	158	174	43

**Depot:** SAIBIR  
**Unique No:** 11075583  
**Signed:** Don Baldrige  
**Report Date:** 14 Jun 2024



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## GRAPHS

