



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352705 - BOGIE/CENTER AXLE



**Sample No:** VCP431010  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP431010</b>	VCP411888	VCP402782	VCP380533
Sample Date	<b>14 Nov 2023</b>	09 Aug 2023	14 Apr 2023	17 Jan 2023
Machine Hours	<b>5454</b>	4958	4480	3993
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	ATTENTION	ATTENTION	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>302</b>	302	300	48.9
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### CONTAMINATION

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

### 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>83</b>	83	101	239
Copper	ppm	<b>&lt;1</b>	<1	0	3
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>1</b>	0	<1	0
Chromium	ppm	<b>1</b>	1	1	3
Molybdenum	ppm	<b>1</b>	2	2	4
Nickel	ppm	<b>0</b>	0	0	1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>2</b>	3	4	8
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>40</b>	44	31	134
Magnesium	ppm	<b>20</b>	18	13	<1
Zinc	ppm	<b>45</b>	52	26	42
Phosphorus	ppm	<b>1161</b>	1116	1260	2183
Barium	ppm	<b>0</b>	2	0	0
Boron	ppm	<b>229</b>	226	254	219

**Depot:** SAIBIR  
**Unique No:** 10754628  
**Signed:** Jonathan Hester  
**Report Date:** 27 Nov 2023



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## GRAPHS

