



# CONSTRUCTION EQUIPMENT

SWO-064954 VOLVO A45G 342096 - FRONT AXLE



**Sample No:** VCP415568  
**Oil Type:** GEAR OIL SAE 80W140  
**Job No:** SWO-064954



## SAMPLE INFORMATION

Sample Number	<b>VCP415568</b>	VCP404584	VCP392778	VCP373745
Sample Date	<b>22 Aug 2023</b>	08 May 2023	16 Dec 2022	23 Aug 2022
Machine Hours	<b>9107</b>	8608	8113	7528
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### SAIIA CONSTRUCTION LLC

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## OIL CONDITION

Visc @ 40°C	cSt	<b>292</b>	293	49.6	49.8
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## CONTAMINATION

Silicon	ppm	<b>4</b>	3	3	3
Sodium	ppm	<b>&lt;1</b>	<1	5	3
Potassium	ppm	<b>0</b>	<1	0	<1



## WEAR METALS

Iron	ppm	<b>67</b>	56	100	45
Copper	ppm	<b>&lt;1</b>	0	<1	<1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>2</b>	<1	2	<1
Chromium	ppm	<b>&lt;1</b>	<1	1	<1
Molybdenum	ppm	<b>1</b>	2	<1	<1
Nickel	ppm	<b>0</b>	1	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	2
Manganese	ppm	<b>1</b>	1	2	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>104</b>	83	163	154
Magnesium	ppm	<b>19</b>	17	1	3
Zinc	ppm	<b>60</b>	48	41	44
Phosphorus	ppm	<b>1115</b>	1087	2079	2238
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>206</b>	159	230	274

## 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:** 10622841  
**Signed:** Don Baldrige  
**Report Date:** 30 Aug 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

