



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342110 - FRONT AXLE



**Sample No:** VCP417115  
**Oil Type:** VOLVO SUPER GEAR OIL 75W-80-GO102  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP417115</b>	VCP315968	VCP300323	VCP279700
Sample Date	<b>16 Aug 2023</b>	26 Jul 2021	11 Jan 2021	29 Jul 2020
Machine Hours	<b>7194</b>	3926	3210	2406
Oil Hours	<b>1000</b>	3926	0	0
Oil Changed	<b>Changed</b>	Changed	Not Changd	Changed
Sample Status	<b>NORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

### ALTA EQUIPMENT

5985 COURT STREET ROAD  
 SYRACUSE, NY  
 US 13206  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>53.3</b>	53.2	52.4	52.8
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### CONTAMINATION

Silicon	ppm	<b>2</b>	9	8	21
Sodium	ppm	<b>1</b>	3	3	4
Potassium	ppm	<b>3</b>	0	4	3



### WEAR METALS

Iron	ppm	<b>63</b>	▲ 1137	▲ 903	805
Copper	ppm	<b>1</b>	4	8	4
Lead	ppm	<b>0</b>	0	2	<1
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>0</b>	3	1	5
Chromium	ppm	<b>1</b>	16	12	10
Molybdenum	ppm	<b>2</b>	16	10	8
Nickel	ppm	<b>&lt;1</b>	5	4	4
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	6
Manganese	ppm	<b>1</b>	25	21	21
Vanadium	ppm	<b>0</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>45</b>	21	16	16
Magnesium	ppm	<b>4</b>	3	2	5
Zinc	ppm	<b>16</b>	47	43	42
Phosphorus	ppm	<b>3392</b>	2410	2426	2271
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>374</b>	310	210	249

### 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:** VOLV00142  
**Unique No:** 10615327  
**Signed:** Sean Felton  
**Report Date:** 23 Aug 2023



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## GRAPHS

