



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342176 - FRONT AXLE



**Sample No:** VCP417005  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP417005</b>	VCP301366	VCP271178	VCP236082
Sample Date	<b>01 Aug 2023</b>	28 Dec 2020	14 Apr 2020	07 Feb 2019
Machine Hours	<b>7664</b>	5299	4225	2167
Oil Hours	<b>0</b>	1000	2000	2167
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

**RIPA AND ASSOCIATES**  
 10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: PM Services  
 PMServices@ripaconstruction.com  
 T:  
 F:

### OIL CONDITION

Visc @ 40°C	cSt	<b>255</b>	255	280	<b>51.96</b>
-------------	-----	------------	-----	-----	--------------

### CONTAMINATION

Silicon	ppm	<b>7</b>	8	3	4
Sodium	ppm	<b>0</b>	<1	<1	4
Potassium	ppm	<b>&lt;1</b>	6	6	3

**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>72</b>	38	69	442
Copper	ppm	<b>1</b>	<1	<1	4
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	1	6
Molybdenum	ppm	<b>2</b>	0	1	2
Nickel	ppm	<b>0</b>	0	<1	1
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>2</b>	<1	2	16
Vanadium	ppm	<b>0</b>	0	<1	0

### ADDITIVES

Calcium	ppm	<b>107</b>	90	35	10
Magnesium	ppm	<b>11</b>	8	11	0
Zinc	ppm	<b>59</b>	46	17	8
Phosphorus	ppm	<b>1101</b>	965	874	2278
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>168</b>	142	136	221

**Depot:** RIPTAM  
**Unique No:** 10607524  
**Signed:** Sean Felton  
**Report Date:** 18 Aug 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

