



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342175 - REAR AXLE



**Sample No:** VCP407854  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP407854</b>	VCP386800	VCP332926	VCP337013
Sample Date	<b>16 Jun 2023</b>	15 Sep 2022	01 Mar 2022	30 Aug 2021
Machine Hours	<b>9340</b>	8071	7189	6287
Oil Hours	<b>0</b>	500	1500	2000
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: ROBERT TURNER  
 rturner@ripatampa.com  
 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>267</b>	292	291	▲ 58.57
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### CONTAMINATION

Silicon	ppm	■ <b>2</b>	■ 3	■ 2	■ 6
Sodium	ppm	■ <b>&lt;1</b>	■ 0	■ 0	■ 2
Potassium	ppm	■ <b>0</b>	■ <1	■ 1	■ 5



### WEAR METALS

Iron	ppm	■ <b>73</b>	■ 56	■ 51	■ 173
Copper	ppm	■ <b>0</b>	■ 2	■ <1	■ 35
Lead	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Tin	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Aluminum	ppm	■ <b>&lt;1</b>	■ 0	■ 0	■ 1
Chromium	ppm	■ <b>&lt;1</b>	■ <1	■ <1	■ 4
Molybdenum	ppm	■ <b>8</b>	■ 4	■ 3	■ 12
Nickel	ppm	■ <b>0</b>	■ 0	■ 0	■ 3
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	■ <b>&lt;1</b>	■ 2	■ 1	■ 18
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	■ <b>198</b>	132	■ 84	447
Magnesium	ppm	■ <b>55</b>	■ 26	■ 21	■ 0
Zinc	ppm	■ <b>139</b>	■ 68	■ 41	■ 170
Phosphorus	ppm	■ <b>998</b>	■ 928	■ 936	■ 1360
Barium	ppm	■ <b>0</b>	■ 0	■ 0	■ 2
Boron	ppm	■ <b>182</b>	■ 165	■ 172	■ 231

### 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:** RIPTAM  
**Unique No:** 10552316  
**Signed:** Don Baldrige  
**Report Date:** 13 Jul 2023

**VOLVO** **GRAPHS**

