



# CONSTRUCTION EQUIPMENT

## 687753 VOLVO A40G 3525 13 - FRONT AXLE



**Sample No:** VCP435616  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 687753



### SAMPLE INFORMATION

Sample Number	<b>VCP435616</b>	VCP422942	VCP390676	VCP360243
Sample Date	<b>14 Mar 2024</b>	31 Jul 2023	26 Sep 2022	16 Mar 2022
Machine Hours	<b>6161</b>	5166	3603	2597
Oil Hours	<b>2000</b>	2000	500	1597
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	NORMAL

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: ROBERT TURNER  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>253</b>	72.8	83.5	51.4
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>4</b>	3	2	3
Sodium	ppm	<b>0</b>	0	0	2
Potassium	ppm	<b>0</b>	<1	0	2

### 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>81</b>	142	37	375
Copper	ppm	<b>3</b>	4	1	3
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>0</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	2	<1	4
Molybdenum	ppm	<b>4</b>	<1	<1	2
Nickel	ppm	<b>&lt;1</b>	1	0	1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>2</b>	2	2	14
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>437</b>	93	24	23
Magnesium	ppm	<b>14</b>	3	1	1
Zinc	ppm	<b>229</b>	51	25	14
Phosphorus	ppm	<b>1298</b>	1971	1814	2626
Barium	ppm	<b>0</b>	1	0	0
Boron	ppm	<b>179</b>	262	246	163

**Depot:** RIPTAM  
**Unique No:** 10976330  
**Signed:** Don Baldrige  
**Report Date:** 15 Apr 2024



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## VOLVO GRAPHS

