



# CONSTRUCTION EQUIPMENT

## 607016 VOLVO A40F 342498 - BOGIE/CENTER AXLE



**Sample No:** VCP436073  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 607016



### SAMPLE INFORMATION

Sample Number	<b>VCP436073</b>	VCP395024	VCP377760	VCP332197
Sample Date	<b>18 Sep 2023</b>	27 Feb 2023	15 Jun 2022	05 Jan 2022
Machine Hours	<b>8432</b>	7463	6561	5591
Oil Hours	<b>4000</b>	3000	2000	1500
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### 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>285</b>	284	244	246
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### CONTAMINATION

Silicon	ppm	<b>6</b>	4	2	3
Sodium	ppm	<b>0</b>	0	1	1
Potassium	ppm	<b>1</b>	0	0	1



### WEAR METALS

Iron	ppm	<b>67</b>	52	36	27
Copper	ppm	<b>&lt;1</b>	0	<1	<1
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>2</b>	<1	<1	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>6</b>	4	2	2
Nickel	ppm	<b>&lt;1</b>	0	0	1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>2</b>	2	<1	1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>108</b>	97	180	210
Magnesium	ppm	<b>55</b>	52	58	91
Zinc	ppm	<b>80</b>	58	124	140
Phosphorus	ppm	<b>1100</b>	866	814	1039
Barium	ppm	<b>9</b>	0	0	0
Boron	ppm	<b>192</b>	156	152	181

### 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:** 10709595  
**Signed:** Wes Davis  
**Report Date:** 24 Oct 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

