



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 752 153 - FRONT AXLE



**Sample No:** VCP441729  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP441729</b>	VCP422461	VCP379667	VCP376713
Sample Date	<b>15 Feb 2024</b>	21 Jul 2023	26 Jan 2023	05 Aug 2022
Machine Hours	<b>5054</b>	3990	3025	2078
Oil Hours	<b>0</b>	3490	1500	1500
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL

**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>306</b>	81.4	85.3	93.3
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>27</b>	7	5	4
Sodium	ppm	<b>0</b>	1	1	1
Potassium	ppm	<b>&lt;1</b>	5	2	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>177</b>	393	191	251
Copper	ppm	<b>15</b>	116	79	61
Lead	ppm	<b>0</b>	<1	0	<1
Tin	ppm	<b>1</b>	6	4	3
Aluminum	ppm	<b>&lt;1</b>	1	<1	1
Chromium	ppm	<b>2</b>	6	3	4
Molybdenum	ppm	<b>3</b>	12	8	10
Nickel	ppm	<b>&lt;1</b>	5	2	3
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>3</b>	13	7	9
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>100</b>	1119	836	932
Magnesium	ppm	<b>8</b>	8	6	6
Zinc	ppm	<b>49</b>	497	357	410
Phosphorus	ppm	<b>1022</b>	1625	1204	1345
Barium	ppm	<b>&lt;1</b>	6	3	2
Boron	ppm	<b>165</b>	285	183	237

**Depot:** RIPTAM  
**Unique No:** 11018970  
**Signed:** Don Baldrige  
**Report Date:** 10 May 2024



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## GRAPHS

