



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 752 153 - REAR AXLE



**Sample No:** VCP441736  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP441736</b>	VCP393747	VCP379663	VCP354000
Sample Date	<b>15 Feb 2024</b>	21 Jul 2023	26 Jan 2023	05 Aug 2022
Machine Hours	<b>5085</b>	3990	3025	2078
Oil Hours	<b>0</b>	3490	1500	1500
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### RIPA AND ASSOCIATES

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



### OIL CONDITION

Visc @ 40°C	cSt	<b>304</b>	85.2	82.5	91.4
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>27</b>	8	6	7
Sodium	ppm	<b>0</b>	0	2	2
Potassium	ppm	<b>&lt;1</b>	4	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>187</b>	417	282	392
Copper	ppm	<b>16</b>	79	82	58
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>1</b>	4	4	3
Aluminum	ppm	<b>&lt;1</b>	1	<1	1
Chromium	ppm	<b>2</b>	7	4	6
Molybdenum	ppm	<b>2</b>	8	10	9
Nickel	ppm	<b>&lt;1</b>	6	3	4
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>3</b>	13	9	12
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>110</b>	636	890	614
Magnesium	ppm	<b>8</b>	5	6	4
Zinc	ppm	<b>51</b>	283	377	272
Phosphorus	ppm	<b>1070</b>	1314	1248	1335
Barium	ppm	<b>&lt;1</b>	6	3	1
Boron	ppm	<b>166</b>	237	191	261

**Depot:** RIPTAM  
**Unique No:** 11018967  
**Signed:** Don Baldrige  
**Report Date:** 10 May 2024



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## VOLVO GRAPHS

