



# CONSTRUCTION EQUIPMENT

687753 VOLVO A40G 352513 - DROP BOX



**Sample No:** VCP437876  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 687753



## SAMPLE INFORMATION

Sample Number	<b>VCP437876</b>	VCP421224	VCP389379	VCP360247
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>	5166	500	2597
Oil Changed	<b>Not Chngd</b>	Changed	N/A	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	ATTENTION	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>212</b>	69.2	<b>74.0</b>	48.4
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## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>6</b>	14	2	36
Sodium	ppm	<b>0</b>	3	0	8
Potassium	ppm	<b>0</b>	<1	<1	<1



## WEAR METALS

Iron	ppm	<b>649</b>	160	44	174
Copper	ppm	<b>5</b>	6	<1	18
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>0</b>	<1	<1	<1
Chromium	ppm	<b>8</b>	2	<1	2
Molybdenum	ppm	<b>14</b>	10	<1	12
Nickel	ppm	<b>7</b>	1	0	1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>6</b>	3	2	4
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>309</b>	71	78	47
Magnesium	ppm	<b>12</b>	5	1	5
Zinc	ppm	<b>182</b>	94	36	112
Phosphorus	ppm	<b>1352</b>	1983	1897	2362
Barium	ppm	<b>0</b>	1	0	0
Boron	ppm	<b>154</b>	88	238	91

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other 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:** 10976331  
**Signed:** Don Baldrige  
**Report Date:** 15 Apr 2024



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## VOLVO GRAPHS

