



# CONSTRUCTION EQUIPMENT

## RA47 VOLVO A40G 352354 - BOGIE/CENTER AXLE



**Sample No:** VCP435381  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** RA47



### SAMPLE INFORMATION

Sample Number	<b>VCP435381</b>	VCP374233	VCP319659	VCP317432
Sample Date	<b>16 Nov 2023</b>	13 May 2022	02 Feb 2022	27 Aug 2021
Machine Hours	<b>5488</b>	2872	2226	1496
Oil Hours	<b>500</b>	500	1000	500
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	NORMAL

**HOUSBY HEAVY EQUIPMENT, LLC**  
 4410 SE 4 MILE DR  
 ANKENY, IA  
 US 50021  
 Contact: RANDY VANDERLEEST  
 rvanderleest@housby.com  
 T:  
 F: (515)964-2865



### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 296</b>	■ 137	■ 138	■ 138
-------------	-----	--------------	-------	-------	-------



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ <1	■ 2	■ 2	■ 2
Sodium	ppm	■ <1	■ <1	■ 0	■ <1
Potassium	ppm	■ 0	■ <1	■ 0	■ 0

### 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 oil viscosity is higher than normal. Confirm oil type.



### WEAR METALS

Iron	ppm	■ 10	■ 68	■ 81	■ 28
Copper	ppm	■ <1	■ <1	■ <1	■ <1
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ 0	■ <1	■ 0	■ 0
Chromium	ppm	■ 0	■ 1	■ 2	■ <1
Molybdenum	ppm	■ 0	■ <1	■ <1	■ 0
Nickel	ppm	■ 0	■ 0	■ <1	■ <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	■ 0	■ 5	■ 6	■ 2
Vanadium	ppm	0	0	0	0



### ADDITIVES

Calcium	ppm	■ 0	8	■ 8	■ 5
Magnesium	ppm	■ 0	■ 0	■ 0	■ <1
Zinc	ppm	■ 1	■ 4	■ <1	■ 5
Phosphorus	ppm	■ 878	■ 1062	■ 1186	■ 1033
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 157	■ 186	■ 218	■ 206

**Depot:** VOLVO0080  
**Unique No:** 10753505  
**Signed:** Don Baldrige  
**Report Date:** 24 Nov 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

