

# CONSTRUCTION EQUIPMENT 622085 VOLVO A40G 352851 - REAR AXLE



Sample No: VCP403965

Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5

**Job No:** 622085

SAMPLE	INFORMATION				
Sample Number	•	VCP403965	VCP411363	VCP386364	VCP362331
Sample Date		06 Nov 2023	12 Apr 2023	07 Oct 2022	17 Mar 2022
Machine Hours		4099	3090	2036	1095
Oil Hours		3000	2744	1500	1095
Oil Changed		Changed	Not Changd	Not Changd	Changed
Sample Status		ATTENTION	ATTENTION	NORMAL	NORMAL
OIL CON	NITION				
Visc @ 40°C	cSt	<b>△</b> 54.3	<b>△</b> 54.6	<b>□</b> 56.9	<b>49.2</b>
VOLVO					
CONTAN	MINATION				
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	11	2	<b>3</b>
Sodium	ppm	<b>2</b>	<b>1</b>	0	1
Potassium	ppm	<b>1</b>	<b>=</b> <1	<b>2</b>	3
	ρρ			<u> </u>	
VOLVO	AFTAL C				
WEAR N	METALS				
Iron	ppm	<b>145</b>	■135	■ 109	■246
Copper	ppm	<b>■</b> 7	<b>2</b>	<b></b>	<b>2</b>
Lead	ppm	<b>0</b>	□0	□0	<b>0</b>
Tin	ppm	<b>■</b> <1	<b>0</b>	<b>-</b> <1	<1
Aluminum	ppm	<b>0</b>	<b>-</b> <1	<b>-</b> <1	<b>&lt;</b> 1
Chromium	ppm	<b>2</b>	<b>2</b>	<b>2</b>	■3
Molybdenum	ppm	<b>1</b>	<b>2</b>	<b>1</b>	<b>4</b>
Nickel	ppm	<b>■</b> <1	<b>-</b> <1	■0	<b>-</b> <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<b>5</b>	<b>4</b>	<b>4</b>	<b>9</b>
Vanadium	ppm	<1	0	<1	0
VOLVO					
ADDITIV	IES				
Calcium	ppm	<b>104</b>	<b>1</b> 5	<b>1</b> 5	<b>1</b> 2
Magnesium	ppm	<b>-</b> <1	1	2	<b>0</b>
Zinc	ppm	■39	■11	■13	<b>■</b> 8
Phosphorus	ppm	<b>2240</b>	<b>2</b> 369	■2303	□2438
Barium	ppm	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Boron	ppm	<b>164</b>	<b>271</b>	■ 274	□280



#### **RIPA AND ASSOCIATES**

10149 FISHER AVENUE TAMPA, FL US 33619 Contact: PM Services

PMS ervices @rip a construction.com

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### Diagnosis

The oil change at the time of sampling has been noted. 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 lower than normal. Confirm oil type.

Depot:RIPTAMUnique No:10765269Signed:Don BaldridgeReport Date:03 Dec 2023



## **CONSTRUCTION EQUIPMENT**





