



# CONSTRUCTION EQUIPMENT

378858 VOLVO A40G 341404 - FRONT AXLE



**Sample No:** VCP433794  
**Oil Type:** VOLVO API GL-5 SAE 75W90  
**Job No:** 378858



## SAMPLE INFORMATION

Sample Number	<b>VCP433794</b>	VCP226016	VCP188111	VCE251961
Sample Date	<b>03 Oct 2023</b>	28 Jan 2019	09 Aug 2018	05 Jun 2017
Machine Hours	<b>8091</b>	4180	4020	2187
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	N/A	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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## OIL CONDITION

Visc @ 40°C	cSt	<b>109</b>	52.12	52.00	52.1
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## CONTAMINATION

Silicon	ppm	<b>11</b>	<1	1	<1
Sodium	ppm	<b>0</b>	2	2	2
Potassium	ppm	<b>2</b>	0	2	0



## WEAR METALS

Iron	ppm	<b>176</b>	34	56	29
Copper	ppm	<b>0</b>	<1	<1	<1
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>4</b>	0	0	<1
Chromium	ppm	<b>3</b>	<1	1	<1
Molybdenum	ppm	<b>0</b>	<1	<1	<1
Nickel	ppm	<b>&lt;1</b>	0	<1	<1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>5</b>	2	3	1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>20</b>	20	11	7
Magnesium	ppm	<b>6</b>	<1	0	0
Zinc	ppm	<b>44</b>	10	6	4
Phosphorus	ppm	<b>2054</b>	2282	2057	2398
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>111</b>	255	248	274

## 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. Confirm oil type. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO2990  
**Unique No:** 10685301  
**Signed:** Don Baldrige  
**Report Date:** 11 Oct 2023



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## GRAPHS

