



# CONSTRUCTION EQUIPMENT

593927 VOLVO A30G 752151 - FRONT AXLE



**Sample No:** VCP416190  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 593927



## SAMPLE INFORMATION

Sample Number	<b>VCP416190</b>	VCP397424	VCP360657	VCP326566
Sample Date	<b>14 Aug 2023</b>	16 Jan 2023	15 Mar 2022	15 Sep 2021
Machine Hours	<b>5197</b>	4145	2275	1165
Oil Hours	<b>1197</b>	3500	1500	1500
Oil Changed	<b>Not Chngd</b>	Changed	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	ATTENTION

**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>286</b>	188	62.0	55.0
-------------	-----	------------	-----	------	------

## CONTAMINATION

Silicon	ppm	<b>2</b>	4	7	6
Sodium	ppm	<b>0</b>	<1	0	1
Potassium	ppm	<b>2</b>	<1	5	2

## WEAR METALS

Iron	ppm	<b>47</b>	120	308	272
Copper	ppm	<b>8</b>	28	80	45
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>0</b>	2	4	2
Aluminum	ppm	<b>0</b>	<1	1	<1
Chromium	ppm	<b>&lt;1</b>	2	5	5
Molybdenum	ppm	<b>&lt;1</b>	3	8	8
Nickel	ppm	<b>0</b>	1	1	2
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>1</b>	4	14	12
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>112</b>	212	933	927
Magnesium	ppm	<b>8</b>	6	2	2
Zinc	ppm	<b>68</b>	129	396	374
Phosphorus	ppm	<b>1089</b>	978	1438	1372
Barium	ppm	<b>0</b>	<1	0	<1
Boron	ppm	<b>176</b>	151	155	189

## 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.

**Depot:** RIPTAM  
**Unique No:** 10642024  
**Signed:** Wes Davis  
**Report Date:** 11 Sep 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

