



# CONSTRUCTION EQUIPMENT

## 742439 VOLVO A30G 742439 - FRONT AXLE



**Sample No:** VCP423038  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 742439



### SAMPLE INFORMATION

Sample Number	<b>VCP423038</b>	VCP402026	VCP376895	VCP346903
Sample Date	<b>03 Aug 2023</b>	14 May 2023	30 Aug 2022	04 Feb 2022
Machine Hours	<b>0</b>	0	5058	4895
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	N/A	Not Changd	Not Changd
Sample Status	<b>ATTENTION</b>	ATTENTION	NORMAL	NORMAL

**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 43.0</b>	▲ 49.5	■ 276	■ 277
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### CONTAMINATION

Silicon	ppm	■ <b>12</b>	■ 2	■ 2	■ 2
Sodium	ppm	■ <b>&lt;1</b>	■ 2	■ 0	■ <b>&lt;1</b>
Potassium	ppm	■ <b>0</b>	■ 8	■ 0	■ <b>&lt;1</b>



### WEAR METALS

Iron	ppm	■ <b>4</b>	■ 90	■ 54	■ 64
Copper	ppm	■ <b>0</b>	■ 2	■ 4	■ 3
Lead	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Tin	ppm	■ <b>0</b>	■ 0	■ <b>&lt;1</b>	■ 0
Aluminum	ppm	■ <b>0</b>	■ 0	■ 0	■ <b>&lt;1</b>
Chromium	ppm	■ <b>0</b>	■ 1	■ <b>&lt;1</b>	■ 1
Molybdenum	ppm	■ <b>&lt;1</b>	■ 3	■ 1	■ 1
Nickel	ppm	■ <b>0</b>	■ <b>&lt;1</b>	■ <b>&lt;1</b>	■ <b>&lt;1</b>
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	2	0
Manganese	ppm	■ <b>0</b>	■ 6	■ 1	■ 1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>▲ 4123</b>	▲ 30	■ 103	■ 61
Magnesium	ppm	■ <b>12</b>	■ <b>&lt;1</b>	■ 13	■ 12
Zinc	ppm	<b>▲ 1577</b>	▲ 16	■ 53	31
Phosphorus	ppm	■ <b>1314</b>	▲ 2363	■ 913	■ 1013
Barium	ppm	■ <b>0</b>	■ 0	■ <b>&lt;1</b>	■ 0
Boron	ppm	■ <b>170</b>	▲ 258	■ 204	■ 190

### Diagnosis

No corrective action is recommended at this time. 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. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

**Depot:** VOLVO4486  
**Unique No:** 10588904  
**Signed:** Jonathan Hester  
**Report Date:** 08 Aug 2023



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## VOLVO GRAPHS

