



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 342095 - DROP BOX



**Sample No:** VCP425095  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP425095</b>	VCP402792	VCP388305	VCP375634
Sample Date	<b>26 Oct 2023</b>	02 May 2023	13 Dec 2022	18 Aug 2022
Machine Hours	<b>8727</b>	7961	7510	6994
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>SEVERE</b>	ATTENTION	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 269</b>	▲ 272	▲ 269	■ 130
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### CONTAMINATION

Silicon	ppm	<b>■ 36</b>	■ 2	■ 3	■ 3
Sodium	ppm	<b>■ 4</b>	■ 0	■ <1	■ 1
Potassium	ppm	<b>■ 16</b>	■ <1	■ 0	■ 0

### WEAR METALS

Iron	ppm	<b>◆ 2104</b>	■ 19	▲ 552	■ 91
Copper	ppm	<b>■ 7</b>	■ 1	■ 2	■ <1
Lead	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Tin	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Aluminum	ppm	<b>■ 2</b>	■ 0	■ 1	■ <1
Chromium	ppm	<b>▲ 29</b>	■ <1	■ 6	■ 1
Molybdenum	ppm	<b>■ 8</b>	■ 3	■ 5	■ 5
Nickel	ppm	<b>▲ 13</b>	■ 0	■ 3	■ <1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>■ 27</b>	■ <1	■ 5	■ 2
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>■ 182</b>	■ 167	■ 114	■ 43
Magnesium	ppm	<b>■ 19</b>	■ 42	■ 30	■ 23
Zinc	ppm	<b>■ 94</b>	■ 124	■ 107	■ 85
Phosphorus	ppm	<b>■ 755</b>	■ 1073	■ 916	■ 928
Barium	ppm	<b>■ 5</b>	■ 0	■ 0	■ <1
Boron	ppm	<b>■ 69</b>	■ 155	■ 119	■ 57

### Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. A sharp increase in the iron level is noted. Gear wear is indicated. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Confirm oil type. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** SAIBIR  
**Unique No:** 10729179  
**Signed:** Don Baldrige  
**Report Date:** 09 Nov 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

