



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 342095 - DROP BOX



**Sample No:** VCP435403  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP435403</b>	VCP425095	VCP402792	VCP388305
Sample Date	<b>17 Nov 2023</b>	26 Oct 2023	02 May 2023	13 Dec 2022
Machine Hours	<b>8792</b>	8727	7961	7510
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>SEVERE</b>	SEVERE	ATTENTION	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>154</b>	269	272	269
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>22</b>	36	2	3
Sodium	ppm	<b>4</b>	4	0	<1
Potassium	ppm	<b>8</b>	16	<1	0



### WEAR METALS

Iron	ppm	<b>1189</b>	2104	19	552
Copper	ppm	<b>5</b>	7	1	2
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>1</b>	2	0	1
Chromium	ppm	<b>17</b>	29	<1	6
Molybdenum	ppm	<b>5</b>	8	3	5
Nickel	ppm	<b>8</b>	13	0	3
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>15</b>	27	<1	5
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1006</b>	182	167	114
Magnesium	ppm	<b>26</b>	19	42	30
Zinc	ppm	<b>412</b>	94	124	107
Phosphorus	ppm	<b>811</b>	755	1073	916
Barium	ppm	<b>0</b>	5	0	0
Boron	ppm	<b>48</b>	69	155	119

### Diagnosis

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level has decreased, but is still abnormal. Gear wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** SAIBIR  
**Unique No:** 10766330  
**Signed:** Don Baldrige  
**Report Date:** 04 Dec 2023



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## GRAPHS

