



# CONSTRUCTION EQUIPMENT

SWO-066738 VOLVO A45G 352799 - DROP BOX



**Sample No:** VCP431955  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SWO-066738



## SAMPLE INFORMATION

Sample Number	<b>VCP431955</b>	VCP417785	VCP405922	VCP368393
Sample Date	<b>25 Oct 2023</b>	12 Jul 2023	29 Mar 2023	16 Nov 2022
Machine Hours	<b>4451</b>	3946	3445	2976
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	MARGINAL	ABNORMAL	NORMAL

### SAIIA CONSTRUCTION LLC

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## OIL CONDITION

Visc @ 40°C	cSt	<b>285</b>	231	229	228
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## CONTAMINATION

Silicon	ppm	<b>10</b>	19	22	20
Sodium	ppm	<b>&lt;1</b>	2	2	2
Potassium	ppm	<b>1</b>	1	3	0



## WEAR METALS

Iron	ppm	<b>155</b>	520	520	412
Copper	ppm	<b>7</b>	30	29	29
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>1</b>	2	2	2
Chromium	ppm	<b>2</b>	6	6	5
Molybdenum	ppm	<b>30</b>	59	58	52
Nickel	ppm	<b>1</b>	2	2	2
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>3</b>	11	11	9
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>111</b>	102	98	66
Magnesium	ppm	<b>33</b>	29	31	25
Zinc	ppm	<b>97</b>	191	184	156
Phosphorus	ppm	<b>1104</b>	1299	1281	1114
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>164</b>	65	83	79

## 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:** SAIBIR  
**Unique No:** 10715075  
**Signed:** Jonathan Hester  
**Report Date:** 02 Nov 2023

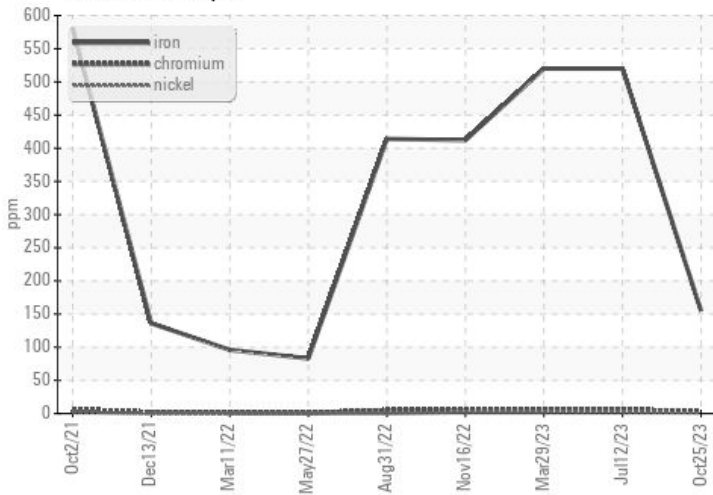


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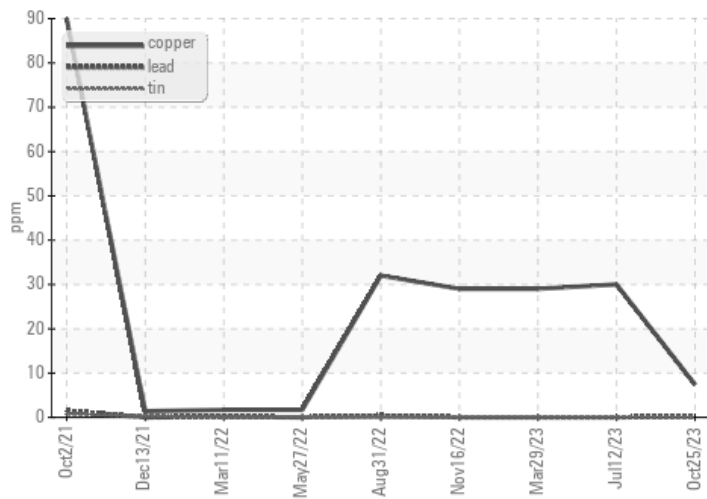


## GRAPHS

### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C

