



# CONSTRUCTION EQUIPMENT

SWO-06920 VOLVO A45G 352916 - BRAKE



**Sample No:** VCP435632  
**Oil Type:** VOLVO WB 102  
**Job No:** SWO-06920



## SAMPLE INFORMATION

Sample Number	<b>VCP435632</b>	VCP432956	VCP419133	VCP404639
Sample Date	<b>26 Jan 2024</b>	11 Oct 2023	25 Jul 2023	04 May 2023
Machine Hours	<b>4034</b>	3517	3005	2493
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	MARGINAL

**SAIIA CONSTRUCTION LLC**  
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 T: (205)943-2268  
 F: (205)943-2269



## OIL CONDITION

Visc @ 40°C	cSt	<b>41.1</b>	41.5	41.1	40.9
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## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>19</b>	18	20	18
Sodium	ppm	<b>5</b>	11	10	9
Potassium	ppm	<b>2</b>	0	0	1



## WEAR METALS

Iron	ppm	<b>56</b>	24	34	18
Copper	ppm	<b>285</b>	275	247	194
Lead	ppm	<b>0</b>	0	0	1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>2</b>	<1	1	1
Chromium	ppm	<b>1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	0	<1	<1
Nickel	ppm	<b>6</b>	5	5	5
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>2</b>	2	2	2
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>3165</b>	2816	3374	3500
Magnesium	ppm	<b>9</b>	21	10	13
Zinc	ppm	<b>1428</b>	1228	1511	1605
Phosphorus	ppm	<b>1255</b>	1119	1276	1321
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>107</b>	95	112	103

## Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Bearing and/or gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

**Depot:** SAIBIR  
**Unique No:** 10858227  
**Signed:** Sean Felton  
**Report Date:** 02 Feb 2024

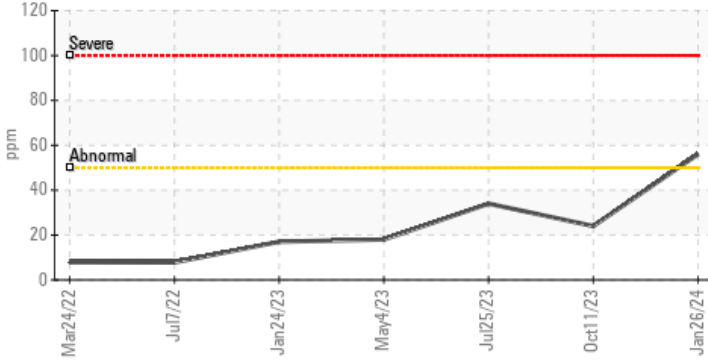


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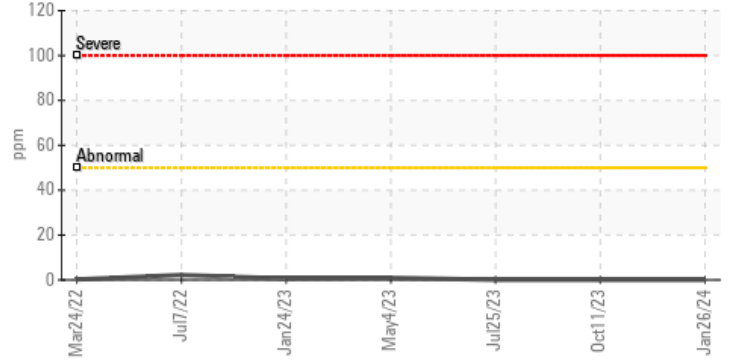


## GRAPHS

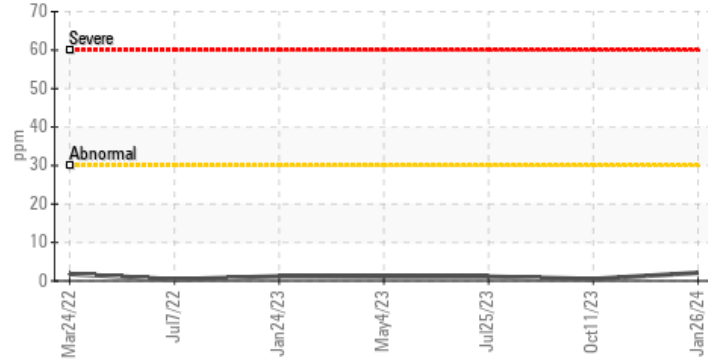
### ▲ Iron (ppm)



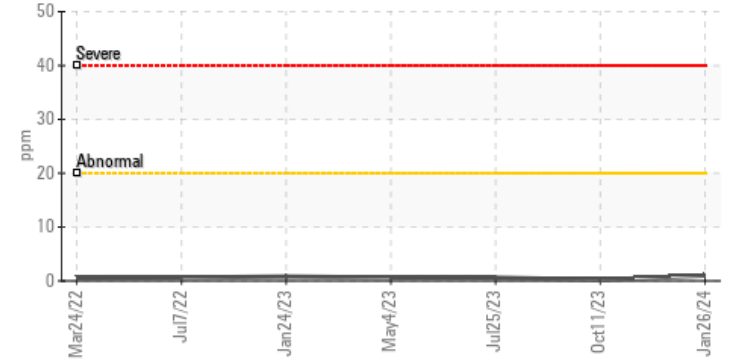
### Lead (ppm)



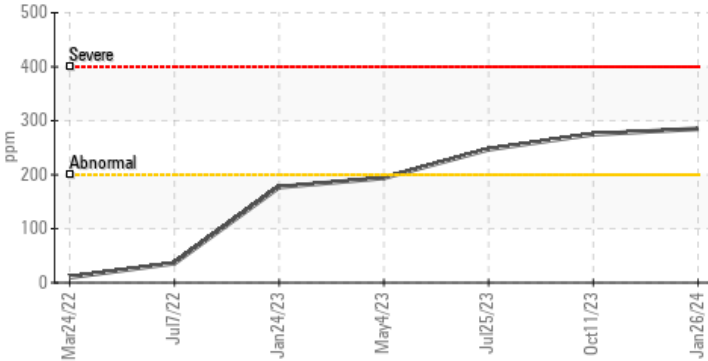
### Aluminum (ppm)



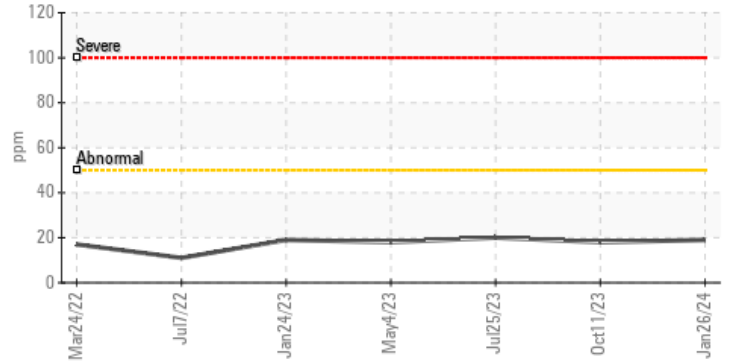
### Chromium (ppm)



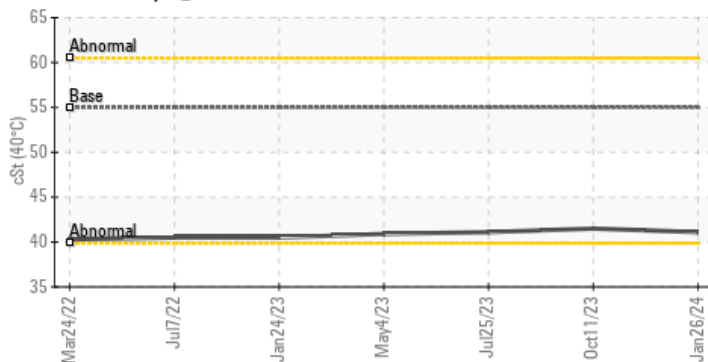
### ▲ Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

