



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 353552 - GEARBOX



**Sample No:** VCP418012  
**Oil Type:** VOLVO WB 102  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP418012	---	---	---
Sample Date	08 Nov 2023	---	---	---
Machine Hours	339	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

**MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND**  
 1345 MOUNTAIN ROAD  
 GLEN ALLEN, VA  
 US 23060  
 Contact: KYLE RATLIFFE  
 KRATLIFFE@MCCLUNG-LOGAN.COM  
 T:  
 F: (804)266-1611



### OIL CONDITION

Visc @ 40°C	cSt	■ 44.1	---	---	---
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### CONTAMINATION

Water	%	▲ 0.827	---	---	---
Silicon	ppm	■ 23	---	---	---
Sodium	ppm	▲ 34	---	---	---
Potassium	ppm	■ 2	---	---	---



### WEAR METALS

Iron	ppm	■ 40	---	---	---
Copper	ppm	▲ 423	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ 4	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	■ 3843	---	---	---
Magnesium	ppm	■ 12	---	---	---
Zinc	ppm	■ 1389	---	---	---
Phosphorus	ppm	■ 1363	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 134	---	---	---

### Diagnosis

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. Test for glycol is positive. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VOLVO8882  
**Unique No:** 10737592  
**Signed:** Doug Bogart  
**Report Date:** 22 Nov 2023

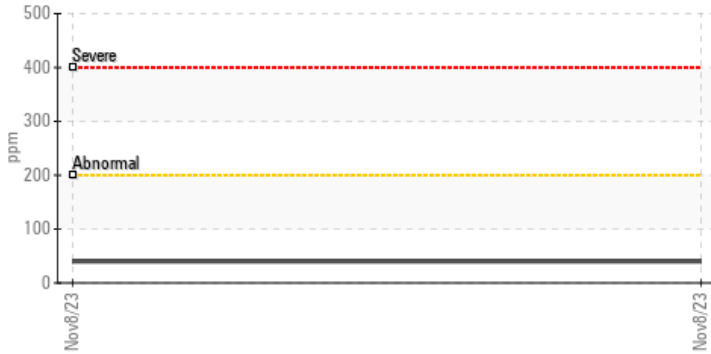


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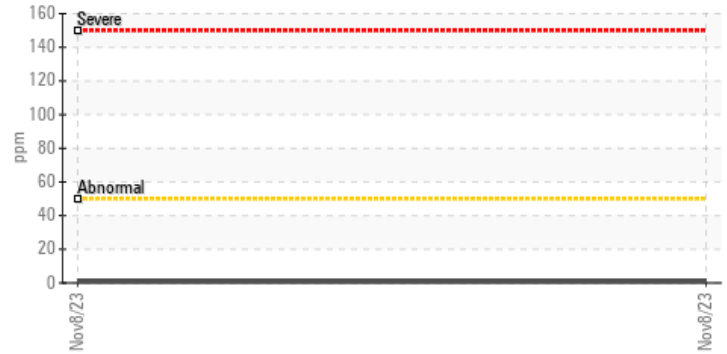


## GRAPHS

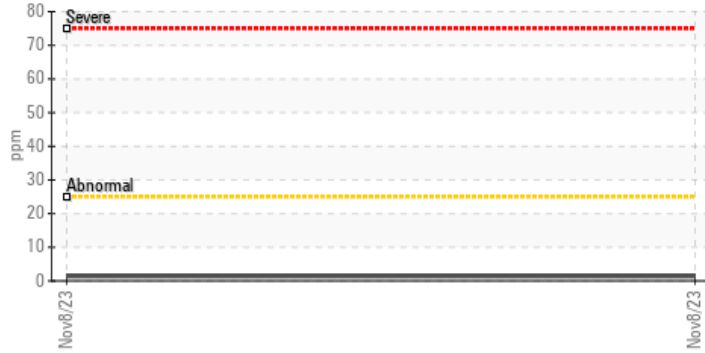
### Iron (ppm)



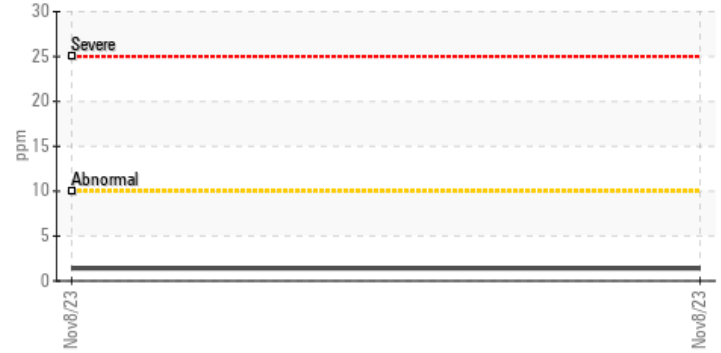
### Lead (ppm)



### Aluminum (ppm)



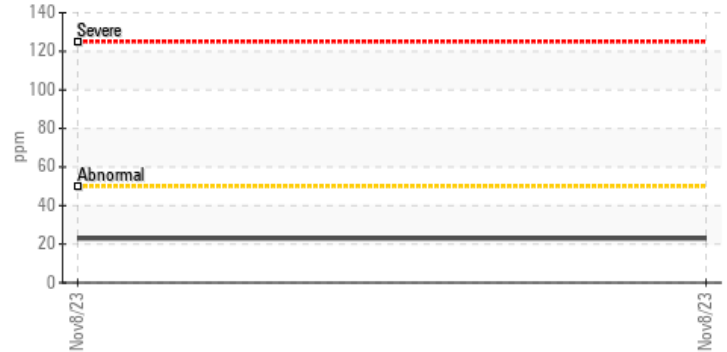
### Chromium (ppm)



### ▲ Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### ▲ Water

