



# CONSTRUCTION EQUIPMENT

## 13735 RYAN VOLVO A45G 353552 - BRAKE COOLING SYSTEM



**Sample No:** VCP414687  
**Oil Type:** VOLVO WB 102  
**Job No:** 13735 RYAN



### SAMPLE INFORMATION

Sample Number	VCP414687	---	---	---
Sample Date	31 Oct 2023	---	---	---
Machine Hours	339	---	---	---
Oil Hours	339	---	---	---
Oil Changed	Not Chngd	---	---	---
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	█ 41.8	---	---	---
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### CONTAMINATION

Silicon	ppm	█ 27	---	---	---
Sodium	ppm	█ 37	---	---	---
Potassium	ppm	█ 2	---	---	---

### Diagnosis

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is abnormal. The copper level is severe. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



### WEAR METALS

Iron	ppm	▲ 66	---	---	---
Copper	ppm	◆ 475	---	---	---
Lead	ppm	█ 5	---	---	---
Tin	ppm	█ 0	---	---	---
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	█ 3563	---	---	---
Magnesium	ppm	█ 13	---	---	---
Zinc	ppm	█ 1250	---	---	---
Phosphorus	ppm	█ 1263	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 180	---	---	---

**Depot:** VOLVO8882  
**Unique No:** 10724780  
**Signed:** Jonathan Hester  
**Report Date:** 06 Nov 2023

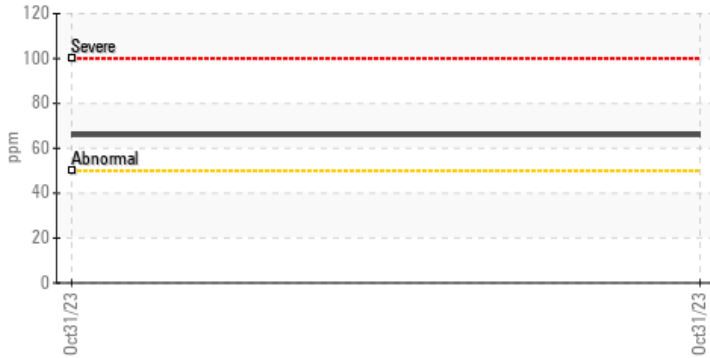


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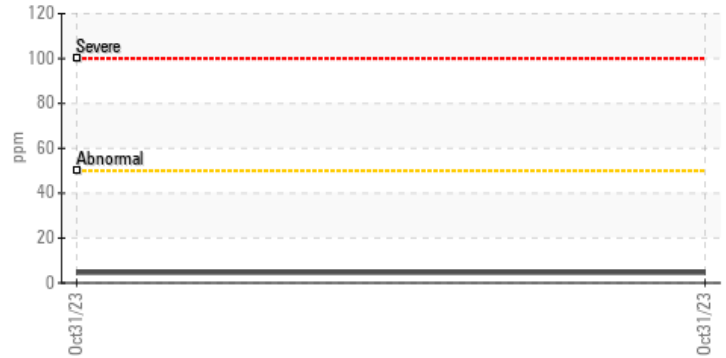


## GRAPHS

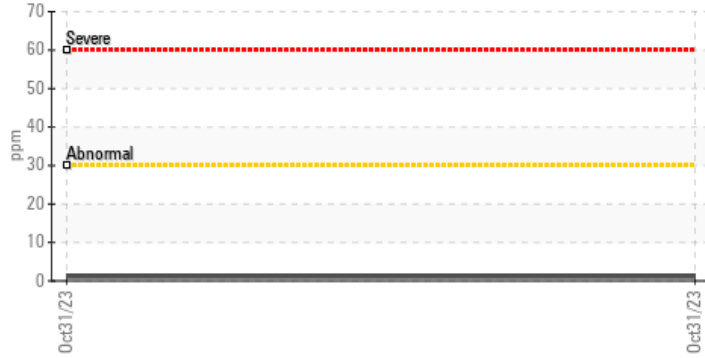
### ▲ Iron (ppm)



### Lead (ppm)



### Aluminum (ppm)



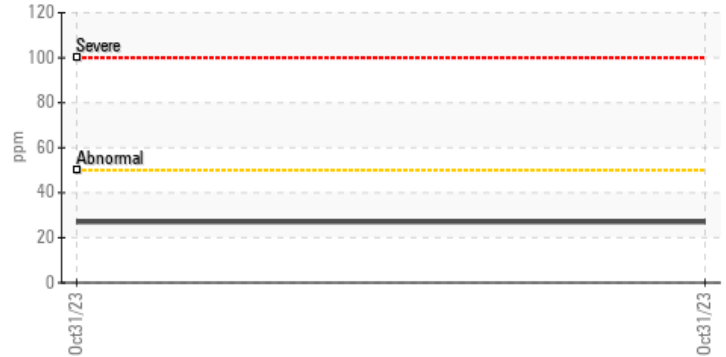
### Chromium (ppm)



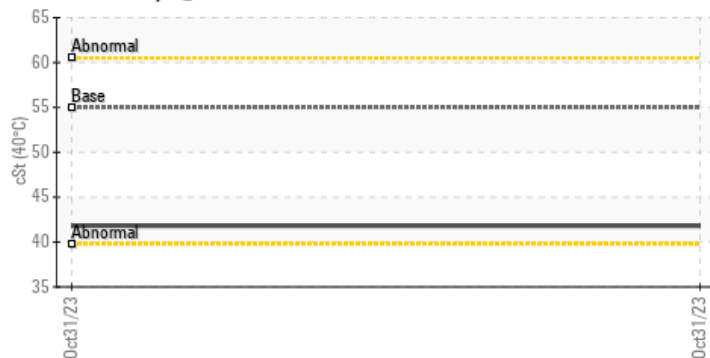
### ◆ Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

