



# CONSTRUCTION EQUIPMENT

W11862 VOLVO A45G 352087 - WET DISC BRAKE



**Sample No:** VCP316967  
**Oil Type:** VOLVO WB 102  
**Job No:** W11862



## SAMPLE INFORMATION

Sample Number	VCP316967	---	---	---
Sample Date	13 Jul 2021	---	---	---
Machine Hours	2296	---	---	---
Oil Hours	2000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	■ 39.9	---	---	---
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## CONTAMINATION

Silicon	ppm	▲ 23	---	---	---
Sodium	ppm	■ 9	---	---	---
Potassium	ppm	■ 2	---	---	---



## WEAR METALS

Iron	ppm	▲ 52	---	---	---
Copper	ppm	▲ 106	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 2	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	■ 4220	---	---	---
Magnesium	ppm	36	---	---	---
Zinc	ppm	■ 1432	---	---	---
Phosphorus	ppm	■ 1330	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 257	---	---	---

## Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. The copper level is abnormal. Moderate concentration of visible metal present. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0080  
**Unique No:** 9592251  
**Signed:** Jonathan Hester  
**Report Date:** 23 Jul 2021

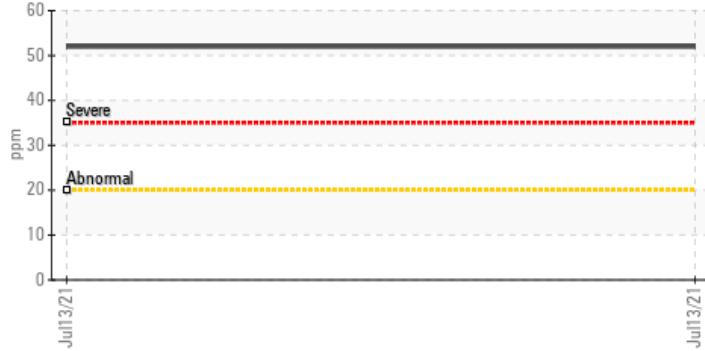


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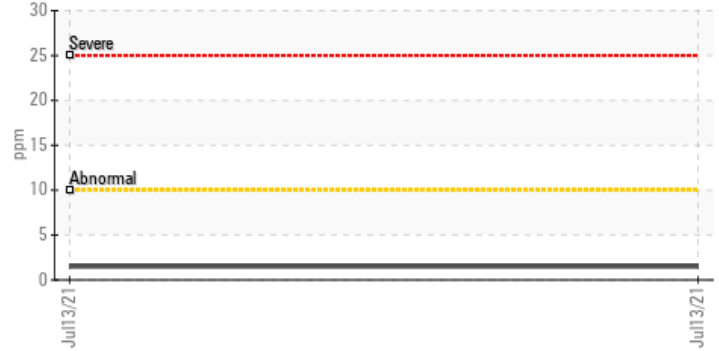


## GRAPHS

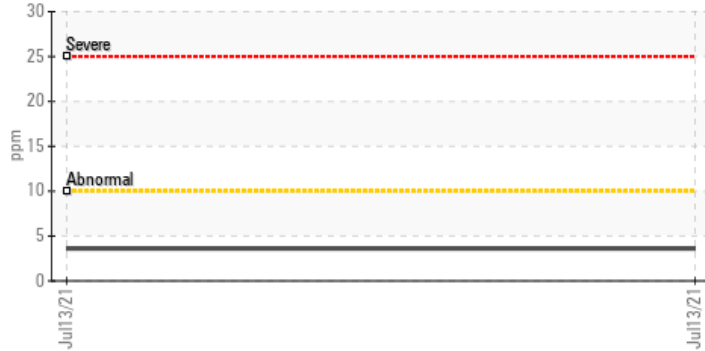
### ▲ Iron (ppm)



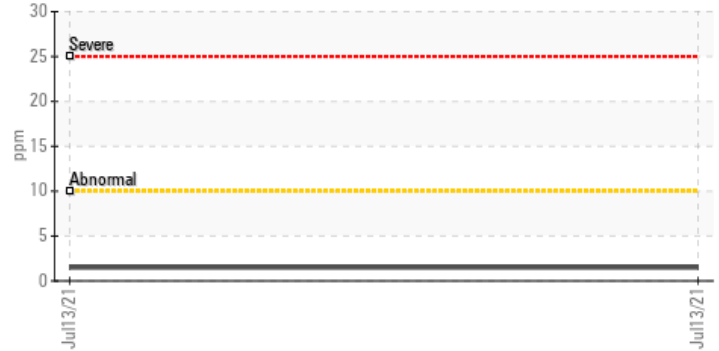
### Lead (ppm)



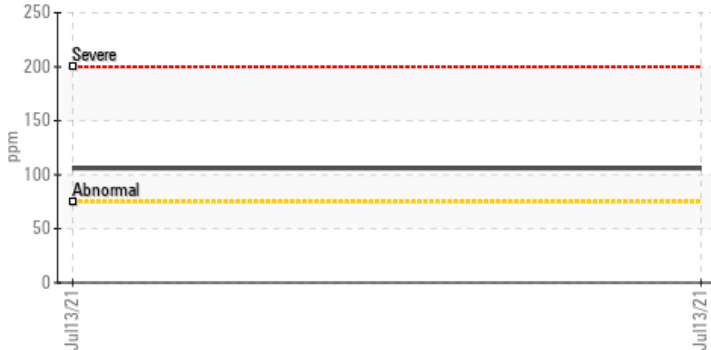
### Aluminum (ppm)



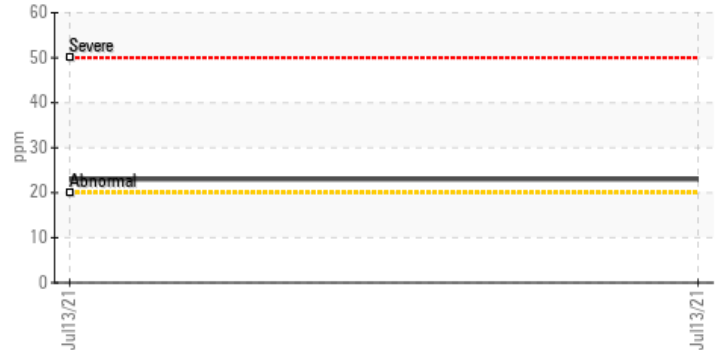
### Chromium (ppm)



### ▲ Copper (ppm)



### ▲ Silicon (ppm)



### Viscosity @ 40°C



### Additives

