



# CONSTRUCTION EQUIPMENT

A11435 CARLSON ENVIR VOLVO A25G 752609 - DIESEL ENGINE



**Sample No:** VCP431247  
**Oil Type:** MOBIL 15W40  
**Job No:** A11435 CARLSON ENVIR



## SAMPLE INFORMATION

Sample Number	VCP431247	---	---	---
Sample Date	07 Nov 2023	---	---	---
Machine Hours	455	---	---	---
Oil Hours	455	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

**HOFFMAN EQUIPMENT - LIONVILLE**  
 120 GORDON DRIVE  
 LIONVILLE, PA  
 US 19341  
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## OIL CONDITION

Visc @ 100°C	cSt	▲ 10.6	---	---	---
Base Number (BN)	mg KOH/g	■ 6.7	---	---	---
Oxidation (PA)	%	60	---	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



## CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	75	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.7	---	---	---
Silicon	ppm	■ 49	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 7	---	---	---



## WEAR METALS

Iron	ppm	■ 27	---	---	---
Copper	ppm	▲ 314	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 95	---	---	---
Nickel	ppm	■ 4	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 2	---	---	---
Manganese	ppm	■ 4	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	■ 2404	---	---	---
Magnesium	ppm	■ 48	---	---	---
Zinc	ppm	■ 1336	---	---	---
Phosphorus	ppm	■ 1177	---	---	---
Barium	ppm	■ 7	---	---	---
Boron	ppm	■ 64	---	---	---

**Depot:** VOLVO8879  
**Unique No:** 10737795  
**Signed:** Sean Felton  
**Report Date:** 14 Nov 2023

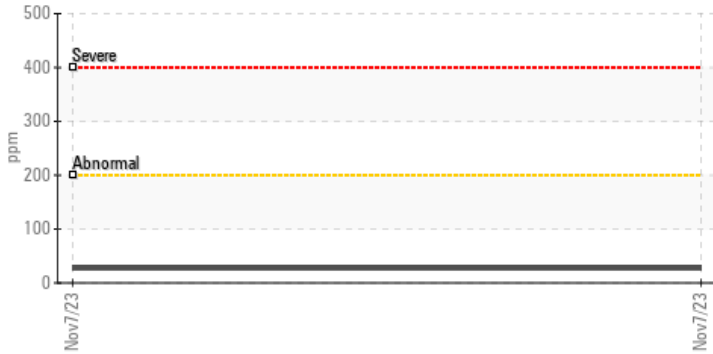


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## GRAPHS

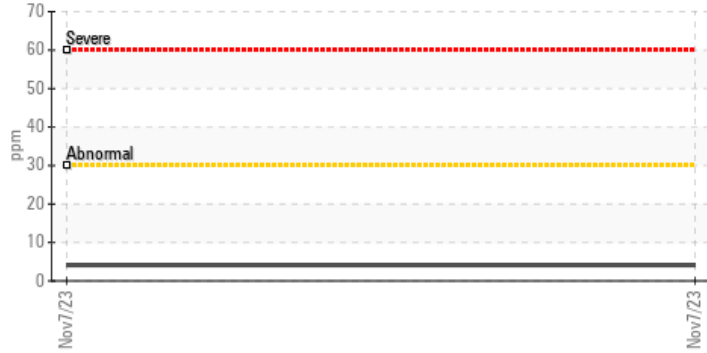
### Iron (ppm)



### Lead (ppm)



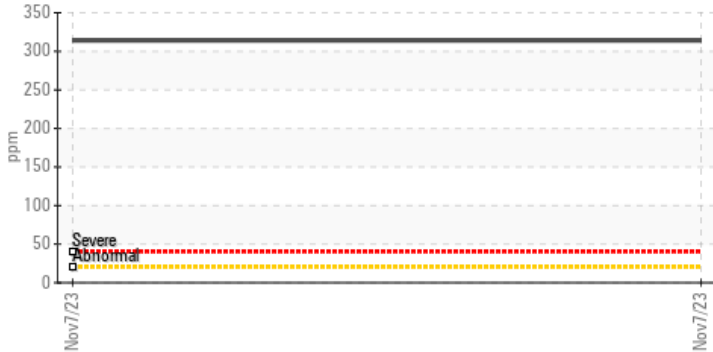
### Aluminum (ppm)



### Chromium (ppm)



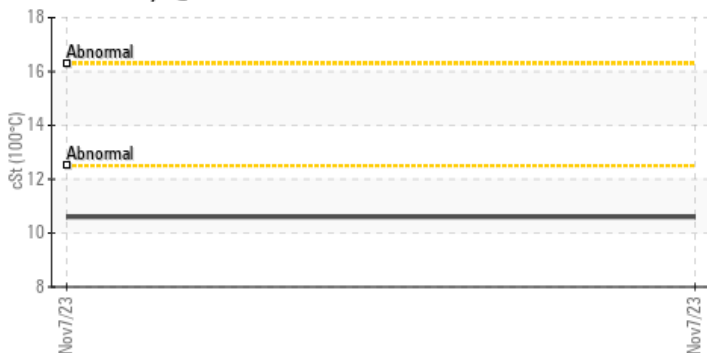
### ▲ Copper (ppm)



### Silicon (ppm)



### ▲ Viscosity @ 100°C



### Base Number

