



# CONSTRUCTION EQUIPMENT

19161 GFL VOLVO L120F 66421 - DIESEL ENGINE



**Sample No:** VCP417733  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 19161 GFL



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## SAMPLE INFORMATION

Sample Number	VCP417733	---	---	---
Sample Date	24 Jul 2023	---	---	---
Machine Hours	25708	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



## OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	---	---	---
Base Number (BN)	mg KOH/g	█ 8.1	---	---	---
Oxidation (PA)	%	81	---	---	---



## CONTAMINATION

Soot %	%	█ 0.6	---	---	---
Nitration (PA)	%	78	---	---	---
Sulfation (PA)	%	63	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 50	---	---	---
Sodium	ppm	▲ 111	---	---	---
Potassium	ppm	▲ 49	---	---	---



## WEAR METALS

Iron	ppm	█ 57	---	---	---
Copper	ppm	█ 11	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ 12	---	---	---
Molybdenum	ppm	█ 45	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 1943	---	---	---
Magnesium	ppm	█ 513	---	---	---
Zinc	ppm	█ 1229	---	---	---
Phosphorus	ppm	█ 978	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 28	---	---	---

## Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil.

**Depot:** VOLVO8769  
**Unique No:** 10586954  
**Signed:** Jonathan Hester  
**Report Date:** 07 Aug 2023



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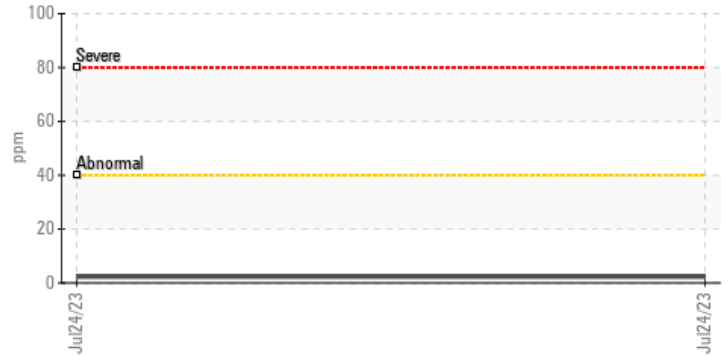


## GRAPHS

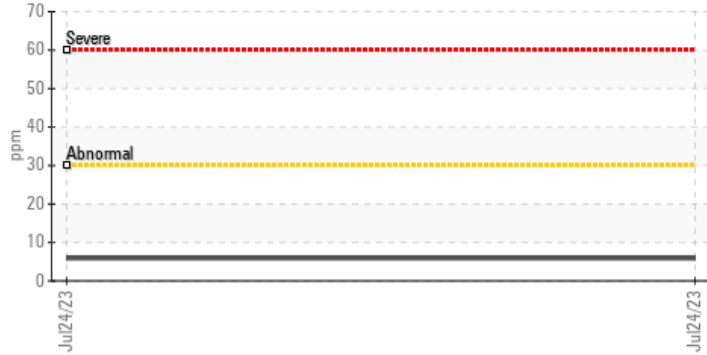
### Iron (ppm)



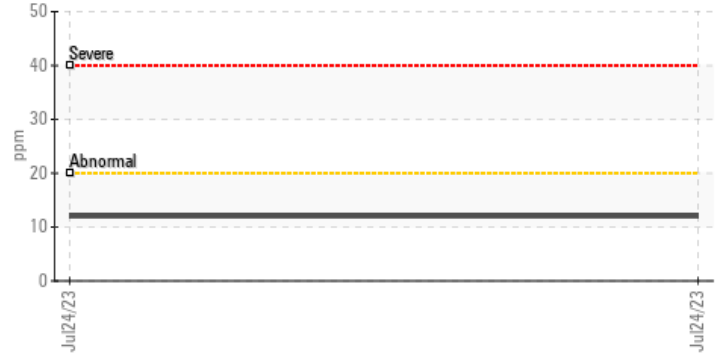
### Lead (ppm)



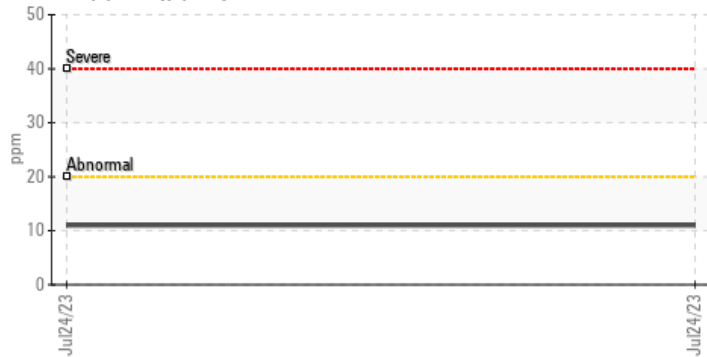
### Aluminum (ppm)



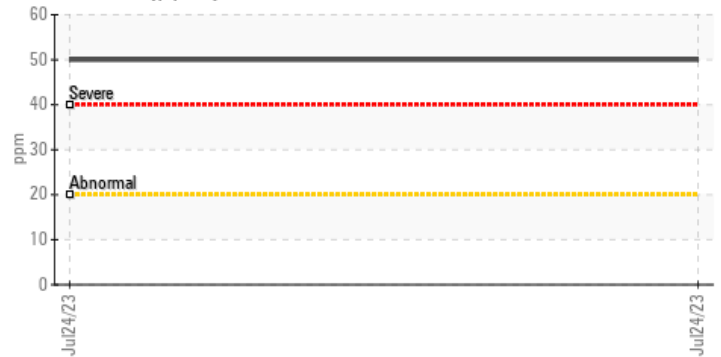
### Chromium (ppm)



### Copper (ppm)



### ▲ Silicon (ppm)



### Viscosity @ 100°C



### Base Number

