



# CONSTRUCTION EQUIPMENT

S50601212 VOLVO L120H 632129 - DIESEL ENGINE



**Sample No:** VCP403992  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** S50601212



## SAMPLE INFORMATION

Sample Number	VCP403992	---	---	---
Sample Date	24 Oct 2023	---	---	---
Machine Hours	3800	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**SHAW ENVIRONMENTAL - APTIM GOVT SOLUTIONS**  
 16406 US 224 EAST  
 FINDLAY, OH  
 US 45840  
 Contact: TODD HICKS  
 todd.hicks@shawgrp.com  
 T: (419)425-6248  
 F:



## OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	---	---	---
Base Number (BN)	mg KOH/g	█ 10.4	---	---	---
Oxidation (PA)	%	87	---	---	---

## Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



## CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	62	---	---	---
Sulfation (PA)	%	63	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 1	---	---	---



## WEAR METALS

Iron	ppm	█ 15	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 9	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 43	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 1714	---	---	---
Magnesium	ppm	█ 511	---	---	---
Zinc	ppm	█ 1154	---	---	---
Phosphorus	ppm	█ 996	---	---	---
Barium	ppm	█ 19	---	---	---
Boron	ppm	█ 48	---	---	---

**Depot:** SHAFINOH  
**Unique No:** 10716176  
**Signed:** Wes Davis  
**Report Date:** 31 Oct 2023



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## GRAPHS

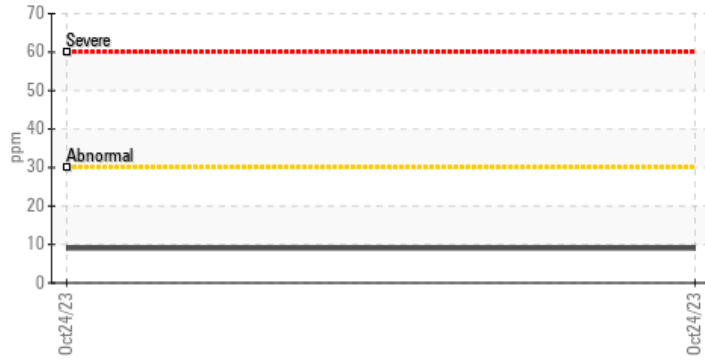
### Iron (ppm)



### Lead (ppm)



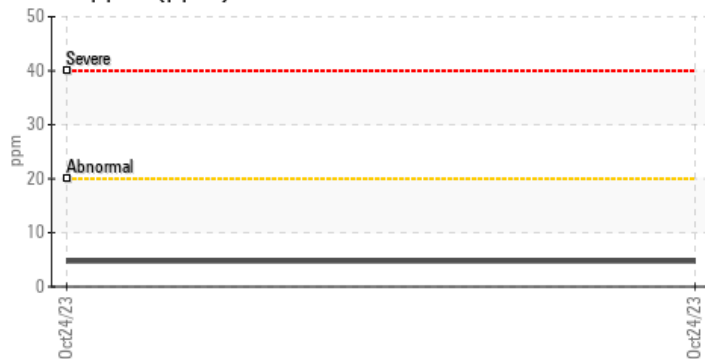
### Aluminum (ppm)



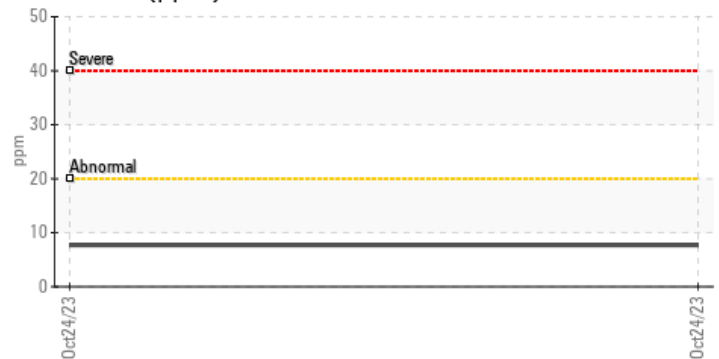
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

