



# CONSTRUCTION EQUIPMENT

376068 VOLVO L120H 632703 - DIESEL ENGINE



**Sample No:** VCP353396  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 376068



## SAMPLE INFORMATION

Sample Number	<b>VCP353396</b>	VCP380867	VCP334122	---
Sample Date	<b>22 Aug 2023</b>	23 Jan 2023	16 Feb 2022	---
Machine Hours	<b>2325</b>	1776	762	---
Oil Hours	<b>0</b>	1000	762	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	---



**STRONGCO EQUIP (AB)**  
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## OIL CONDITION

Visc @ 40°C	cSt	---	■ 99.9	---	---
Visc @ 100°C	cSt	■ <b>13.5</b>	■ 13.6	■ 12.8	---
Viscosity Index (VI)	Scale	---	■ 136	---	---
Oxidation (PA)	%	<b>85</b>	86	40	---



## CONTAMINATION

Soot %	%	■ <b>0.3</b>	■ 0.3	■ 0	---
Nitration (PA)	%	<b>64</b>	75	42	---
Sulfation (PA)	%	<b>68</b>	67	45	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	■ <b>6</b>	■ 9	■ 19	---
Sodium	ppm	■ <b>4</b>	■ 3	■ 4	---
Potassium	ppm	■ <b>&lt;1</b>	■ <1	■ 2	---



## WEAR METALS

Iron	ppm	■ <b>21</b>	■ 40	■ 54	---
Copper	ppm	■ <b>3</b>	■ 7	■ 15	---
Lead	ppm	■ <b>1</b>	■ 1	■ 3	---
Tin	ppm	■ <b>1</b>	■ 2	■ 3	---
Aluminum	ppm	■ <b>21</b>	59	▲ 124	---
Chromium	ppm	■ <b>2</b>	■ 4	■ 8	---
Molybdenum	ppm	■ <b>41</b>	■ 39	■ 28	---
Nickel	ppm	■ <b>&lt;1</b>	■ <1	■ <1	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	■ <b>&lt;1</b>	■ <1	1	---
Manganese	ppm	■ <b>&lt;1</b>	■ 2	■ 3	---
Vanadium	ppm	<b>0</b>	0	0	---



## ADDITIVES

Calcium	ppm	■ <b>1699</b>	■ 1727	■ 1400	---
Magnesium	ppm	■ <b>525</b>	■ 551	■ 679	---
Zinc	ppm	■ <b>1089</b>	■ 1095	■ 916	---
Phosphorus	ppm	■ <b>983</b>	■ 998	■ 844	---
Barium	ppm	■ <b>0</b>	■ <1	■ 2	---
Boron	ppm	■ <b>48</b>	■ 45	■ 52	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO9652  
**Unique No:** 5630941  
**Signed:** Wes Davis  
**Report Date:** 24 Aug 2023



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## GRAPHS

