



# CONSTRUCTION EQUIPMENT

## VOLVO L120H 632841 - DIESEL ENGINE



**Sample No:** VCP0008146  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP0008146</b>	VCP303961	---	---
Sample Date	<b>25 Jan 2024</b>	19 Mar 2021	---	---
Machine Hours	<b>8601</b>	1036	---	---
Oil Hours	<b>7565</b>	0	---	---
Oil Changed	<b>N/A</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

**ALTA EQUIPMENT COMPANY**  
 8750 PHILIPS HWY  
 JACKSONVILLE, FL  
 US 32256  
 Contact: SHAWN NORTHCRAFT  
 shawn.northcraft@altg.com  
 T: (904)737-6000  
 F: (904)737-1260



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.8</b>	14.2	---	---
Base Number (BN)	mg KOH/g	<b>8.6</b>	---	---	---
Oxidation (PA)	%	<b>55</b>	65	---	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.2</b>	0.2	---	---
Nitration (PA)	%	<b>59</b>	73	---	---
Sulfation (PA)	%	<b>51</b>	59	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>4</b>	10	---	---
Sodium	ppm	<b>2</b>	4	---	---
Potassium	ppm	<b>4</b>	3	---	---



### WEAR METALS

Iron	ppm	<b>4</b>	12	---	---
Copper	ppm	<b>&lt;1</b>	8	---	---
Lead	ppm	<b>1</b>	2	---	---
Tin	ppm	<b>&lt;1</b>	1	---	---
Aluminum	ppm	<b>5</b>	8	---	---
Chromium	ppm	<b>&lt;1</b>	1	---	---
Molybdenum	ppm	<b>59</b>	10	---	---
Nickel	ppm	<b>&lt;1</b>	<1	---	---
Titanium	ppm	<b>10</b>	66	---	---
Silver	ppm	<b>0</b>	<1	---	---
Manganese	ppm	<b>&lt;1</b>	<1	---	---
Vanadium	ppm	<b>&lt;1</b>	<1	---	---



### ADDITIVES

Calcium	ppm	<b>1294</b>	1693	---	---
Magnesium	ppm	<b>633</b>	426	---	---
Zinc	ppm	<b>1238</b>	1161	---	---
Phosphorus	ppm	<b>1036</b>	1007	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>49</b>	113	---	---

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

**Depot:** VOLVO0092  
**Unique No:** 10857611  
**Signed:** Wes Davis  
**Report Date:** 01 Feb 2024



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## GRAPHS

