



# CONSTRUCTION EQUIPMENT

## 9961 VOLVO L60H 621991 - DIESEL ENGINE



**Sample No:** VCP388539  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9961



### SAMPLE INFORMATION

Sample Number	<b>VCP388539</b>	VCP423121	VCP405015	---
Sample Date	<b>17 Nov 2023</b>	24 Jul 2023	31 Mar 2023	---
Machine Hours	<b>2499</b>	2044	1579	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	MARGINAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.4</b>	13.3	▲ 12.2	---
Base Number (BN)	mg KOH/g	<b>7.6</b>	8.2	6.5	---
Oxidation (PA)	%	<b>59</b>	63	81	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.2	0.4	---
Nitration (PA)	%	<b>48</b>	53	78	---
Sulfation (PA)	%	<b>58</b>	58	54	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	1.7	---
Silicon	ppm	<b>9</b>	9	4	---
Sodium	ppm	<b>&lt;1</b>	0	2	---
Potassium	ppm	<b>&lt;1</b>	2	0	---

### 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.

### WEAR METALS

Iron	ppm	<b>8</b>	17	24	---
Copper	ppm	<b>1</b>	3	3	---
Lead	ppm	<b>0</b>	0	0	---
Tin	ppm	<b>0</b>	<1	0	---
Aluminum	ppm	<b>6</b>	8	3	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>85</b>	95	71	---
Nickel	ppm	<b>0</b>	<1	0	---
Titanium	ppm	<b>2</b>	<1	0	---
Silver	ppm	<b>0</b>	<1	0	---
Manganese	ppm	<b>&lt;1</b>	1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>1417</b>	1572	1185	---
Magnesium	ppm	<b>414</b>	437	924	---
Zinc	ppm	<b>1341</b>	1266	1268	---
Phosphorus	ppm	<b>1014</b>	1094	1052	---
Barium	ppm	<b>0</b>	3	0	---
Boron	ppm	<b>451</b>	484	27	---

**Depot:** VOLV00150  
**Unique No:** 10755200  
**Signed:** Jonathan Hester  
**Report Date:** 27 Nov 2023



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## GRAPHS

