



# CONSTRUCTION EQUIPMENT

## 9937 VOLVO L70H 622302 - DIESEL ENGINE



**Sample No:** VCP388546  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9937



### SAMPLE INFORMATION

Sample Number	<b>VCP388546</b>	VCP412711	VCP358604	VCP317743
Sample Date	<b>16 Nov 2023</b>	30 Aug 2023	06 Aug 2022	19 Aug 2021
Machine Hours	<b>9143</b>	8734	7567	6335
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**RELIABLE CONTRACTING**  
 2410 EVERGREEN RD SUITE 200  
 GAMBRILLS, MD  
 US 21054  
 Contact: RUSSELL HATFIELD  
 RHATFIELD@RELIABLECONTRACTING.COM  
 T: (410)987-1851  
 F:



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.6</b>	13.5	13.8	13.0
Base Number (BN)	mg KOH/g	<b>7.4</b>	6.0	7.5	---
Oxidation (PA)	%	<b>62</b>	78	56	73

### 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.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.6	0.4	0.2
Nitration (PA)	%	<b>55</b>	85	83	73
Sulfation (PA)	%	<b>60</b>	66	61	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	8	6	5
Sodium	ppm	<b>1</b>	2	<1	3
Potassium	ppm	<b>&lt;1</b>	1	2	<1



### WEAR METALS

Iron	ppm	<b>7</b>	24	14	7
Copper	ppm	<b>&lt;1</b>	2	2	<1
Lead	ppm	<b>0</b>	2	<1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>4</b>	9	8	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>85</b>	113	28	116
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	0
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1402</b>	1788	2355	1538
Magnesium	ppm	<b>412</b>	519	151	655
Zinc	ppm	<b>1269</b>	1030	1100	826
Phosphorus	ppm	<b>1033</b>	823	910	715
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>397</b>	168	28	285

**Depot:** RELMIL  
**Unique No:** 10752987  
**Signed:** Wes Davis  
**Report Date:** 22 Nov 2023



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## GRAPHS

