



# CONSTRUCTION EQUIPMENT

## 9129 VOLVO L70G 614340 - DIESEL ENGINE



**Sample No:** VCP407901  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9129



### SAMPLE INFORMATION

Sample Number	<b>VCP407901</b>	VCP384273	VCP344949	VCP315482
Sample Date	<b>29 Jun 2023</b>	14 Nov 2022	22 Feb 2022	14 Oct 2021
Machine Hours	<b>11650</b>	11208	10501	10033
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**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	12.7	13.0	13.0
Base Number (BN)	mg KOH/g	<b>8.3</b>	9.2	9.9	---
Oxidation (PA)	%	<b>61</b>	69	70	65



### CONTAMINATION

Soot %	%	<b>0.2</b>	0.2	0.1	0.1
Nitration (PA)	%	<b>60</b>	68	62	62
Sulfation (PA)	%	<b>59</b>	65	66	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	7	7	4
Sodium	ppm	<b>0</b>	0	1	0
Potassium	ppm	<b>1</b>	0	<1	1



### WEAR METALS

Iron	ppm	<b>9</b>	12	0	6
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>4</b>	6	6	3
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>97</b>	128	125	115
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>2</b>	<1	<1	1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1452</b>	1603	1624	1588
Magnesium	ppm	<b>427</b>	677	709	621
Zinc	ppm	<b>1181</b>	836	978	817
Phosphorus	ppm	<b>1004</b>	761	808	724
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>445</b>	323	352	305

### 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:** RELMIL  
**Unique No:** 10552471  
**Signed:** Wes Davis  
**Report Date:** 13 Jul 2023



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## GRAPHS

