



# CONSTRUCTION EQUIPMENT

## 9541 VOLVO L90H 624667 - DIESEL ENGINE



**Sample No:** VCP413612  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9541



### SAMPLE INFORMATION

Sample Number	<b>VCP413612</b>	VCP387954	VCP390016	VCP355427
Sample Date	<b>01 Sep 2023</b>	05 May 2023	31 Oct 2022	04 Aug 2022
Machine Hours	<b>3137</b>	2573	1942	1645
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**GAINES & CO**  
 112 WESTMINISTER RD  
 REISTERSTOWN, MD  
 US 21136  
 Contact: MICHAEL GLADFELTER

### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.3	13.6	13.0
Base Number (BN)	mg KOH/g	<b>7.0</b>	6.6	9.9	9.2
Oxidation (PA)	%	<b>61</b>	62	68	76

T: (410)833-9833  
 F: (410)833-9822

### 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

Soot %	%	<b>0.2</b>	0.2	0.2	0.3
Nitration (PA)	%	<b>57</b>	59	59	84
Sulfation (PA)	%	<b>58</b>	56	65	67
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	6	6	9
Sodium	ppm	<b>2</b>	1	0	<1
Potassium	ppm	<b>0</b>	3	3	2

### WEAR METALS

Iron	ppm	<b>9</b>	11	8	25
Copper	ppm	<b>&lt;1</b>	1	2	4
Lead	ppm	<b>0</b>	0	<1	1
Tin	ppm	<b>&lt;1</b>	<1	<1	2
Aluminum	ppm	<b>5</b>	6	8	18
Chromium	ppm	<b>&lt;1</b>	<1	<1	2
Molybdenum	ppm	<b>102</b>	102	112	110
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0

### ADDITIVES

Calcium	ppm	<b>1574</b>	1600	1448	1660
Magnesium	ppm	<b>432</b>	500	492	610
Zinc	ppm	<b>1306</b>	1275	965	934
Phosphorus	ppm	<b>1074</b>	993	808	756
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>408</b>	360	368	196

**Depot:** GAICOC  
**Unique No:** 10634937  
**Signed:** Wes Davis  
**Report Date:** 08 Sep 2023



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## GRAPHS

