



# CONSTRUCTION EQUIPMENT

## 356527 VOLVO L90H 623902 - DIESEL ENGINE



**Sample No:** VCP352934  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 356527



### SAMPLE INFORMATION

Sample Number	<b>VCP352934</b>	VCP347042	VCP273115	VCP260723
Sample Date	<b>01 Mar 2023</b>	04 Apr 2022	18 Jan 2021	18 Feb 2020
Machine Hours	<b>8528</b>	7154	5523	4300
Oil Hours	<b>500</b>	0	500	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.2	13.5	13.5
Oxidation (PA)	%	<b>86</b>	83	58	86

### CONTAMINATION

Soot %	%	<b>0</b>	0	0.1	0.1
Nitration (PA)	%	<b>61</b>	58	68	73
Sulfation (PA)	%	<b>68</b>	68	54	71
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	0.8	<1.0
Silicon	ppm	<b>4</b>	6	7	7
Sodium	ppm	<b>2</b>	2	3	2
Potassium	ppm	<b>0</b>	<1	2	<1

### 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 condition of the oil is acceptable for the time in service.

### WEAR METALS

Iron	ppm	<b>8</b>	9	10	17
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	5	4	5
Chromium	ppm	<b>&lt;1</b>	<1	2	<1
Molybdenum	ppm	<b>43</b>	40	6	42
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0

### ADDITIVES

Calcium	ppm	<b>1826</b>	1654	1376	1671
Magnesium	ppm	<b>517</b>	515	721	541
Zinc	ppm	<b>1092</b>	1100	830	921
Phosphorus	ppm	<b>1004</b>	982	712	786
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>38</b>	41	66	39

**Depot:** VOLVO3908  
**Unique No:** 5539878  
**Signed:** Wes Davis  
**Report Date:** 03 Mar 2023



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## VOLVO GRAPHS

