



# CONSTRUCTION EQUIPMENT

## 9858 VOLVO L90H 623773 - DIESEL ENGINE



**Sample No:** VCP388509  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9858



### SAMPLE INFORMATION

Sample Number	<b>VCP388509</b>	VCP423093	VCP390119	VCP344444
Sample Date	<b>08 Dec 2023</b>	15 May 2023	01 Dec 2022	27 Jan 2022
Machine Hours	<b>9086</b>	8516	8178	7411
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**IAA - INSURANCE AUTO AUCTIONS - ELKTON**  
 183 ZEITLER RD  
 ELKTON, MD  
 US 21921  
 Contact: Service Manager

### OIL CONDITION

Visc @ 100°C	cSt	<b>13.4</b>	13.6	13.7	14.1
Base Number (BN)	mg KOH/g	<b>7.0</b>	7.7	8.3	9.4
Oxidation (PA)	%	<b>68</b>	67	85	83

T:  
F:

### 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>0.3</b>	0.3	0.6	0.6
Nitration (PA)	%	<b>68</b>	63	98	86
Sulfation (PA)	%	<b>61</b>	62	72	71
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	4	7	8
Sodium	ppm	<b>0</b>	1	0	2
Potassium	ppm	<b>2</b>	0	2	<1

### WEAR METALS

Iron	ppm	<b>9</b>	10	16	11
Copper	ppm	<b>1</b>	<1	2	<1
Lead	ppm	<b>&lt;1</b>	0	2	2
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	6	8	6
Chromium	ppm	<b>&lt;1</b>	<1	1	<1
Molybdenum	ppm	<b>98</b>	96	132	125
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	3	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1

### ADDITIVES

Calcium	ppm	<b>1404</b>	1601	1647	1669
Magnesium	ppm	<b>396</b>	448	660	714
Zinc	ppm	<b>1248</b>	1232	882	864
Phosphorus	ppm	<b>997</b>	1021	696	789
Barium	ppm	<b>11</b>	0	0	0
Boron	ppm	<b>337</b>	418	167	295

**Depot:** IAAELK  
**Unique No:** 10782843  
**Signed:** Wes Davis  
**Report Date:** 14 Dec 2023

**VOLVO** **GRAPHS**

