



# CONSTRUCTION EQUIPMENT

## S50402292 VOLVO L90H 625515 - DIESEL ENGINE



**Sample No:** VCP435904  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** S50402292



### SAMPLE INFORMATION

Sample Number	<b>VCP435904</b>	VCP397904	VCP372624	VCP320191
Sample Date	<b>13 Dec 2023</b>	05 Jun 2023	08 Jul 2022	03 Nov 2021
Machine Hours	<b>5500</b>	4521	3017	1679
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 - WESTCHESTER VC  
 2 WESTBROOK CORPORATE CENTER STE. 5  
 WESTCHESTER, IL  
 US 60154  
 Contact: BILLY BUTLER



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	13.3	13.8	13.1
Base Number (BN)	mg KOH/g	<b>10.6</b>	10.2	11.4	---
Oxidation (PA)	%	<b>83</b>	79	87	87

T: (404)275-6868  
 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>0.6</b>	0.6	0.7	1
Nitration (PA)	%	<b>59</b>	60	64	74
Sulfation (PA)	%	<b>63</b>	60	66	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	5	5	8
Sodium	ppm	<b>2</b>	3	2	2
Potassium	ppm	<b>&lt;1</b>	<1	0	<1



### WEAR METALS

Iron	ppm	<b>5</b>	7	11	28
Copper	ppm	<b>&lt;1</b>	<1	<1	2
Lead	ppm	<b>1</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	<1	1
Aluminum	ppm	<b>5</b>	4	5	10
Chromium	ppm	<b>&lt;1</b>	<1	<1	2
Molybdenum	ppm	<b>43</b>	43	41	41
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1711</b>	1826	1766	1749
Magnesium	ppm	<b>538</b>	530	521	534
Zinc	ppm	<b>1216</b>	1163	1134	1136
Phosphorus	ppm	<b>975</b>	958	946	1009
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>45</b>	47	40	30

**Depot:** INSWES  
**Unique No:** 10795068  
**Signed:** Wes Davis  
**Report Date:** 20 Dec 2023



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## GRAPHS

