



# CONSTRUCTION EQUIPMENT

S50402451 VOLVO L90H 625727 - DIESEL ENGINE



**Sample No:** VCP414902  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** S50402451



## SAMPLE INFORMATION

Sample Number	<b>VCP414902</b>	VCP435185	VCP406303	VCP405421
Sample Date	<b>10 Jan 2024</b>	11 Oct 2023	27 Apr 2023	09 Feb 2023
Machine Hours	<b>6000</b>	5543	4547	4059
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>12.8</b>	13.6	15.2	13.0
Base Number (BN)	mg KOH/g	<b>10.0</b>	9.9	6.2	10.3
Oxidation (PA)	%	<b>83</b>	88	90	81

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>0.2</b>	0.5	0.3	0.3
Nitration (PA)	%	<b>58</b>	75	92	57
Sulfation (PA)	%	<b>62</b>	63	70	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	6	10	3
Sodium	ppm	<b>2</b>	3	4	0
Potassium	ppm	<b>0</b>	2	7	<1



## WEAR METALS

Iron	ppm	<b>4</b>	12	21	6
Copper	ppm	<b>&lt;1</b>	<1	2	0
Lead	ppm	<b>&lt;1</b>	<1	<1	0
Tin	ppm	<b>1</b>	<1	1	0
Aluminum	ppm	<b>2</b>	5	4	1
Chromium	ppm	<b>&lt;1</b>	<1	1	0
Molybdenum	ppm	<b>41</b>	39	30	41
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	1	0
Vanadium	ppm	<b>0</b>	0	<1	0



## ADDITIVES

Calcium	ppm	<b>1674</b>	1658	2235	1707
Magnesium	ppm	<b>479</b>	510	221	470
Zinc	ppm	<b>1075</b>	1136	1388	1115
Phosphorus	ppm	<b>924</b>	963	1061	925
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>38</b>	18	121	38

**Depot:** INSWES  
**Unique No:** 10859456  
**Signed:** Wes Davis  
**Report Date:** 02 Feb 2024



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## GRAPHS

