



# CONSTRUCTION EQUIPMENT

S50403254 VOLVO L90H 626333 - DIESEL ENGINE



**Sample No:** VCP440875  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** S50403254



## SAMPLE INFORMATION

Sample Number	<b>VCP440875</b>	VCP403561	VCP400409	---
Sample Date	<b>09 Apr 2024</b>	15 Aug 2023	28 Feb 2023	---
Machine Hours	<b>4565</b>	2851	1718	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	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>12.1</b>	13.0	12.8	---
Base Number (BN)	mg KOH/g	<b>9.8</b>	9.8	8.8	---
Oxidation (PA)	%	<b>82</b>	79	83	---

T: (404)275-6868  
 F:

## Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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	---
Soot %	%	<b>0.1</b>	0.4	0.5	---
Nitration (PA)	%	<b>57</b>	60	78	---
Sulfation (PA)	%	<b>61</b>	60	61	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>2.4</b>	<1.0	<1.0	---
Silicon	ppm	<b>4</b>	7	16	---
Sodium	ppm	<b>2</b>	2	4	---
Potassium	ppm	<b>0</b>	1	0	---



## WEAR METALS

Iron	ppm	<b>6</b>	26	51	---
Copper	ppm	<b>&lt;1</b>	2	10	---
Lead	ppm	<b>2</b>	0	2	---
Tin	ppm	<b>&lt;1</b>	2	3	---
Aluminum	ppm	<b>2</b>	11	18	---
Chromium	ppm	<b>&lt;1</b>	3	4	---
Molybdenum	ppm	<b>40</b>	41	42	---
Nickel	ppm	<b>0</b>	<1	<1	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	1	5	---
Vanadium	ppm	<b>&lt;1</b>	0	<1	---



## ADDITIVES

Calcium	ppm	<b>1776</b>	1773	1628	---
Magnesium	ppm	<b>524</b>	564	567	---
Zinc	ppm	<b>1083</b>	1218	1098	---
Phosphorus	ppm	<b>948</b>	968	876	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>35</b>	25	21	---

**Depot:** INSWES  
**Unique No:** 10989550  
**Signed:** Wes Davis  
**Report Date:** 23 Apr 2024



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## GRAPHS

