



# CONSTRUCTION EQUIPMENT

S50403679 VOLVO L90H 625930 - DIESEL ENGINE



**Sample No:** VCP446817  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** S50403679



## SAMPLE INFORMATION

Sample Number	<b>VCP446817</b>	VCP439569	VCP443127	VCP399634
Sample Date	<b>03 Jun 2024</b>	27 Feb 2024	01 Dec 2023	11 Apr 2023
Machine Hours	<b>4538</b>	4046	10000	2379
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>13.2</b>	12.6	12.4	13.7
Base Number (BN)	mg KOH/g	<b>10.1</b>	10.4	10.2	10.8
Oxidation (PA)	%	<b>85</b>	81	81	88

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>0.5</b>	0.2	0.2	0.7
Nitration (PA)	%	<b>68</b>	52	50	73
Sulfation (PA)	%	<b>63</b>	60	61	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	1.6	<1.0
Silicon	ppm	<b>6</b>	7	8	7
Sodium	ppm	<b>1</b>	4	<1	5
Potassium	ppm	<b>2</b>	3	2	<1



## WEAR METALS

Iron	ppm	<b>25</b>	6	5	49
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	0	<1	0
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>5</b>	5	2	<1
Chromium	ppm	<b>1</b>	<1	<1	2
Molybdenum	ppm	<b>45</b>	39	41	43
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1712</b>	1552	1630	1863
Magnesium	ppm	<b>522</b>	479	496	546
Zinc	ppm	<b>1145</b>	1067	1099	1239
Phosphorus	ppm	<b>986</b>	855	955	997
Barium	ppm	<b>0</b>	0	12	0
Boron	ppm	<b>34</b>	40	45	34

**Depot:** INSWES  
**Unique No:** 11075060  
**Signed:** Angela Borella  
**Report Date:** 14 Jun 2024



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## GRAPHS

