



# CONSTRUCTION EQUIPMENT

730045 IAA VOLVO L90H 625959 - DIESEL ENGINE



**Sample No:** VCP440197  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 730045 IAA



## SAMPLE INFORMATION

Sample Number	<b>VCP440197</b>	VCP454048	VCP449123	VCP433827
Sample Date	<b>19 Jun 2024</b>	25 Mar 2024	27 Dec 2023	19 Sep 2023
Machine Hours	<b>5059</b>	4542	3954	3330
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.6</b>	13.8	14.6	14.6
Base Number (BN)	mg KOH/g	<b>9.4</b>	9.3	9.4	9.5
Oxidation (PA)	%	<b>62</b>	63	61	59

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.4	0.4	0.4
Nitration (PA)	%	<b>66</b>	68	67	62
Sulfation (PA)	%	<b>53</b>	53	53	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	2	3	4
Sodium	ppm	<b>2</b>	2	<1	1
Potassium	ppm	<b>2</b>	2	<1	<1

## WEAR METALS

Iron	ppm	<b>38</b>	38	55	63
Copper	ppm	<b>4</b>	1	<1	<1
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>2</b>	3	3	4
Chromium	ppm	<b>&lt;1</b>	1	<1	2
Molybdenum	ppm	<b>63</b>	56	56	64
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	1
Vanadium	ppm	<b>0</b>	<1	0	0

## ADDITIVES

Calcium	ppm	<b>1102</b>	1118	1047	1173
Magnesium	ppm	<b>996</b>	1005	987	1081
Zinc	ppm	<b>1322</b>	1309	1309	1387
Phosphorus	ppm	<b>1027</b>	897	976	1136
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	0	0	<1

## 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.

**Depot:** VOLVO0095  
**Unique No:** 11098967  
**Signed:** Jonathan Hester  
**Report Date:** 27 Jun 2024



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## VOLVO GRAPHS

