



# CONSTRUCTION EQUIPMENT

SW1036156 IAA VOLVO L90H 625150 - DIESEL ENGINE



**Sample No:** VCP437977  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SW1036156 IAA



## SAMPLE INFORMATION

Sample Number	<b>VCP437977</b>	VCP442951	VCP437524	VCP413312
Sample Date	<b>12 Jun 2024</b>	28 Mar 2024	04 Jan 2024	25 Aug 2023
Machine Hours	<b>0</b>	8415	7830	7315
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.9</b>	13.0	13.0	13.5
Base Number (BN)	mg KOH/g	<b>8.4</b>	9.8	9.1	9.1
Oxidation (PA)	%	<b>59</b>	80	68	77



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.4	0.5	0.7
Nitration (PA)	%	<b>61</b>	68	66	83
Sulfation (PA)	%	<b>53</b>	60	56	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	3	4
Sodium	ppm	<b>&lt;1</b>	2	1	1
Potassium	ppm	<b>&lt;1</b>	0	<1	0



## WEAR METALS

Iron	ppm	<b>4</b>	6	4	13
Copper	ppm	<b>0</b>	<1	<1	2
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	1	<1	<1
Chromium	ppm	<b>0</b>	<1	0	<1
Molybdenum	ppm	<b>41</b>	47	50	58
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	<1
Vanadium	ppm	<b>0</b>	<1	0	0



## ADDITIVES

Calcium	ppm	<b>1440</b>	1606	1203	1281
Magnesium	ppm	<b>643</b>	684	820	868
Zinc	ppm	<b>1119</b>	1247	1262	1304
Phosphorus	ppm	<b>972</b>	1012	946	1053
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>10</b>	27	10	<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:** VOLVO6174  
**Unique No:** 11087207  
**Signed:** Wes Davis  
**Report Date:** 20 Jun 2024



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## GRAPHS

