



# CONSTRUCTION EQUIPMENT

## R24214 IAA-SAYREVILL VOLVO L90H 626686 - DIESEL ENGINE



**Sample No:** VCP436555  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** R24214 IAA-SAYREVILL



### SAMPLE INFORMATION

Sample Number	<b>VCP436555</b>	VCP441967	VCP390087	---
Sample Date	<b>07 Feb 2024</b>	09 Oct 2023	09 Jun 2023	---
Machine Hours	<b>1531</b>	1026	484	---
Oil Hours	<b>0</b>	0	484	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	12.9	12.3	---
Base Number (BN)	mg KOH/g	<b>10.0</b>	10.6	10.0	---
Oxidation (PA)	%	<b>80</b>	80	73	---

### 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	---
Soot %	%	<b>0.1</b>	0.2	0.1	---
Nitration (PA)	%	<b>50</b>	52	53	---
Sulfation (PA)	%	<b>61</b>	61	60	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.2	---
Silicon	ppm	<b>4</b>	8	13	---
Sodium	ppm	<b>2</b>	4	3	---
Potassium	ppm	<b>0</b>	2	<1	---



### WEAR METALS

Iron	ppm	<b>6</b>	8	12	---
Copper	ppm	<b>&lt;1</b>	2	3	---
Lead	ppm	<b>0</b>	<1	0	---
Tin	ppm	<b>&lt;1</b>	<1	1	---
Aluminum	ppm	<b>2</b>	2	<1	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>39</b>	39	48	---
Nickel	ppm	<b>0</b>	<1	0	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	1	2	---
Vanadium	ppm	<b>0</b>	0	<1	---



### ADDITIVES

Calcium	ppm	<b>1653</b>	1570	1693	---
Magnesium	ppm	<b>511</b>	497	534	---
Zinc	ppm	<b>1144</b>	1107	1069	---
Phosphorus	ppm	<b>974</b>	939	885	---
Barium	ppm	<b>&lt;1</b>	0	0	---
Boron	ppm	<b>59</b>	41	63	---

**Depot:** HOFPISNJ  
**Unique No:** 10875368  
**Signed:** Wes Davis  
**Report Date:** 14 Feb 2024



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## GRAPHS

