



# CONSTRUCTION EQUIPMENT

## R23621 IAA-SAYREVILL VOLVO L90H 625942 - DIESEL ENGINE



**Sample No:** VCP441972  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** R23621 IAA-SAYREVILL



### SAMPLE INFORMATION

Sample Number	<b>VCP441972</b>	VCP390254	VCP390248	VCP399073
Sample Date	<b>27 Nov 2023</b>	16 Aug 2023	04 May 2023	24 Jan 2023
Machine Hours	<b>4053</b>	3561	3053	2516
Oil Hours	<b>0</b>	500	500	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>12.3</b>	13.1	13.1	13.4
Base Number (BN)	mg KOH/g	<b>10.3</b>	10.0	9.2	9.7
Oxidation (PA)	%	<b>81</b>	79	76	60

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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>0.2</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>55</b>	54	53	56
Sulfation (PA)	%	<b>61</b>	59	55	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>0.3</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>8</b>	8	6	5
Sodium	ppm	<b>0</b>	3	3	1
Potassium	ppm	<b>2</b>	4	3	0



### WEAR METALS

Iron	ppm	<b>12</b>	13	12	13
Copper	ppm	<b>&lt;1</b>	3	<1	<1
Lead	ppm	<b>0</b>	1	0	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>3</b>	4	3	3
Chromium	ppm	<b>&lt;1</b>	1	<1	1
Molybdenum	ppm	<b>41</b>	41	44	60
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	<1	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>1645</b>	1748	1749	1250
Magnesium	ppm	<b>474</b>	536	602	937
Zinc	ppm	<b>1066</b>	1185	1229	1237
Phosphorus	ppm	<b>916</b>	959	962	1000
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>42</b>	43	48	4

**Depot:** HOFPISNJ  
**Unique No:** 10766817  
**Signed:** Wes Davis  
**Report Date:** 05 Dec 2023



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## GRAPHS

