



# CONSTRUCTION EQUIPMENT

R25113 IAA VOLVO L90H 625944 - DIESEL ENGINE



**Sample No:** VCP430630  
**Oil Type:** VOLVO VDS-4.5 Premium Motor Oil 15W40  
**Job No:** R25113 IAA



## SAMPLE INFORMATION

Sample Number	<b>VCP430630</b>	VCP441488	VCP409673	VCP390293
Sample Date	<b>24 May 2024</b>	29 Feb 2024	28 Dec 2023	09 Jun 2023
Machine Hours	<b>5046</b>	4573	4213	3238
Oil Hours	<b>500</b>	0	500	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>13.3</b>	13.1	14.1	13.3
Base Number (BN)	mg KOH/g	<b>10.0</b>	10.1	9.1	10.1
Oxidation (PA)	%	<b>86</b>	83	98	87

## 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>0.2</b>	0.3	0.6	0.3
Nitration (PA)	%	<b>64</b>	65	92	67
Sulfation (PA)	%	<b>63</b>	61	66	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	6	6	6
Sodium	ppm	<b>&lt;1</b>	2	3	3
Potassium	ppm	<b>1</b>	2	0	<1



## WEAR METALS

Iron	ppm	<b>9</b>	11	20	13
Copper	ppm	<b>&lt;1</b>	<1	1	1
Lead	ppm	<b>&lt;1</b>	2	<1	0
Tin	ppm	<b>&lt;1</b>	1	1	<1
Aluminum	ppm	<b>2</b>	3	5	<1
Chromium	ppm	<b>&lt;1</b>	<1	2	<1
Molybdenum	ppm	<b>43</b>	49	44	45
Nickel	ppm	<b>&lt;1</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	<1	0	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	<1



## ADDITIVES

Calcium	ppm	<b>1617</b>	1802	1792	1765
Magnesium	ppm	<b>488</b>	520	546	600
Zinc	ppm	<b>1082</b>	1175	1186	1195
Phosphorus	ppm	<b>968</b>	974	1020	982
Barium	ppm	<b>1</b>	0	0	0
Boron	ppm	<b>40</b>	40	21	38

**Depot:** HOFPISNJ  
**Unique No:** 11057071  
**Signed:** Wes Davis  
**Report Date:** 31 May 2024



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## GRAPHS

