



# CONSTRUCTION EQUIPMENT

## A12149 IAA VOLVO L90H 624420 - DIESEL ENGINE



**Sample No:** VCP439560  
**Oil Type:** MOBIL 15W40  
**Job No:** A12149 IAA



### SAMPLE INFORMATION

Sample Number	<b>VCP439560</b>	VCP430370	VCP400499	VCP383594
Sample Date	<b>21 Feb 2024</b>	09 Oct 2023	27 Feb 2023	25 Oct 2022
Machine Hours	<b>9505</b>	9000	8575	8050
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**HOFFMAN EQUIPMENT - LIONVILLE**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.3</b>	14.3	13.4	13.7
Base Number (BN)	mg KOH/g	<b>5.8</b>	6.8	8.6	11.9
Oxidation (PA)	%	<b>59</b>	53	70	86

### 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>1.1</b>	1	1	1.4
Nitration (PA)	%	<b>82</b>	78	82	78
Sulfation (PA)	%	<b>63</b>	56	59	70
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	6	9	6
Sodium	ppm	<b>2</b>	0	2	2
Potassium	ppm	<b>2</b>	2	2	2



### WEAR METALS

Iron	ppm	<b>20</b>	15	28	14
Copper	ppm	<b>2</b>	1	1	<1
Lead	ppm	<b>1</b>	<1	<1	0
Tin	ppm	<b>1</b>	<1	<1	<1
Aluminum	ppm	<b>6</b>	0	6	4
Chromium	ppm	<b>2</b>	1	2	<1
Molybdenum	ppm	<b>15</b>	19	52	45
Nickel	ppm	<b>1</b>	<1	0	0
Titanium	ppm	<b>1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>2115</b>	2154	1521	1702
Magnesium	ppm	<b>163</b>	193	717	491
Zinc	ppm	<b>1072</b>	1148	1250	1113
Phosphorus	ppm	<b>866</b>	938	1076	930
Barium	ppm	<b>1</b>	1	2	2
Boron	ppm	<b>6</b>	4	13	28

**Depot:** VOLVO8879  
**Unique No:** 10900918  
**Signed:** Wes Davis  
**Report Date:** 29 Feb 2024



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## VOLVO GRAPHS

