



# CONSTRUCTION EQUIPMENT

## SW1029025 IAA 7 VOLVO L90H 626385 - DIESEL ENGINE



**Sample No:** VCP436942  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SW1029025 IAA 7



### SAMPLE INFORMATION

Sample Number	<b>VCP436942</b>	VCP441351	VCP416030	VCP409766
Sample Date	<b>26 Jan 2024</b>	01 Nov 2023	15 Aug 2023	16 May 2023
Machine Hours	<b>3570</b>	2969	2405	1820
Oil Hours	<b>0</b>	0	0	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>13.6</b>	13.4	13.6	14.1
Base Number (BN)	mg KOH/g	<b>9.9</b>	9.3	9.5	9.9
Oxidation (PA)	%	<b>86</b>	74	78	75



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.6</b>	0.6	0.7	0.7
Nitration (PA)	%	<b>75</b>	71	71	73
Sulfation (PA)	%	<b>63</b>	59	60	60
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	8	6
Sodium	ppm	<b>2</b>	1	2	2
Potassium	ppm	<b>1</b>	<1	3	2



### WEAR METALS

Iron	ppm	<b>12</b>	12	19	23
Copper	ppm	<b>&lt;1</b>	<1	1	2
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>1</b>	<1	<1	1
Aluminum	ppm	<b>2</b>	2	2	1
Chromium	ppm	<b>&lt;1</b>	<1	1	<1
Molybdenum	ppm	<b>44</b>	53	51	58
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1455</b>	1309	1624	1496
Magnesium	ppm	<b>590</b>	882	683	917
Zinc	ppm	<b>1167</b>	1327	1224	1365
Phosphorus	ppm	<b>959</b>	1032	983	1065
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>21</b>	14	19	12

### 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:** 10860024  
**Signed:** Wes Davis  
**Report Date:** 02 Feb 2024



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## GRAPHS

