



# CONSTRUCTION EQUIPMENT

## VOLVO L110H 631332 - TRANSMISSION (AUTO)



**Sample No:** VCP429578

**Oil Type:** DIESEL ENGINE OIL SAE 15W40

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP429578</b>	VCP414742	VCP396870	VCP398065
Sample Date	<b>13 Dec 2023</b>	06 Sep 2023	08 May 2023	01 Dec 2022
Machine Hours	<b>9794</b>	9270	8702	8127
Oil Hours	<b>0</b>	3200	0	2000
Oil Changed	<b>N/A</b>	Not Changd	Not Changd	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	NORMAL

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 27.0</b>	■ 26.7	■ 27.1	■ 26.4
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 4	■ 4	■ 4	■ 2
Sodium	ppm	■ 4	■ 2	■ 2	■ 0
Potassium	ppm	■ <1	■ <1	■ 2	■ <1



### WEAR METALS

Iron	ppm	■ 42	■ 42	■ 41	■ 56
Copper	ppm	■ 6	■ 6	■ 6	■ 7
Lead	ppm	■ 0	■ 0	■ <1	■ 0
Tin	ppm	■ 0	■ <1	■ <1	■ 0
Aluminum	ppm	■ 4	■ 2	■ 2	■ 2
Chromium	ppm	■ 0	■ <1	■ 0	■ 0
Molybdenum	ppm	■ 0	■ <1	■ <1	■ 0
Nickel	ppm	■ 0	■ <1	■ <1	■ 0
Titanium	ppm	■ 0	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ 2	■ 2	■ 1	■ 2
Vanadium	ppm	0	0	0	0



### ADDITIVES

Calcium	ppm	▲ 83	■ 86	■ 100	■ 104
Magnesium	ppm	▲ 0	■ 2	■ 2	■ 2
Zinc	ppm	▲ 5	■ 18	■ 18	■ 24
Phosphorus	ppm	▲ 171	■ 169	■ 186	■ 165
Barium	ppm	■ 0	■ 2	■ <1	■ 2
Boron	ppm	■ 63	■ 67	■ 75	■ 57

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The fluid viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

**Depot:** RIPTAM  
**Unique No:** 10829912  
**Signed:** Don Baldrige  
**Report Date:** 14 Jan 2024



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## VOLVO GRAPHS

