



# CONSTRUCTION EQUIPMENT

## VOLVO L90H 624039 - TRANSMISSION (AUTO)



**Sample No:** VCP437860

**Oil Type:** VOLVO AUTOMATIC TRANSMISSION FLUID AT102

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP437860</b>	VCP422494	VCP257325	VCP268716
Sample Date	<b>23 Apr 2024</b>	30 Mar 2023	04 Jun 2020	13 Jan 2020
Machine Hours	<b>4432</b>	3868	2495	2004
Oil Hours	<b>0</b>	3868	500	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: PM Services  
PMServices@ripaconstruction.com  
T:  
F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>29.1</b>	26.4	26.4	26.3
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>4</b>	7	7	13
Sodium	ppm	<b>5</b>	4	3	7
Potassium	ppm	<b>2</b>	1	4	3

### 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 condition of the fluid is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>30</b>	66	55	▲ 103
Copper	ppm	<b>4</b>	9	7	12
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	2	2	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	<1
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>&lt;1</b>	0	<1	0
Manganese	ppm	<b>2</b>	6	4	10
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>76</b>	112	111	151
Magnesium	ppm	<b>1</b>	2	2	3
Zinc	ppm	<b>57</b>	47	37	70
Phosphorus	ppm	<b>189</b>	172	160	171
Barium	ppm	<b>&lt;1</b>	0	2	5
Boron	ppm	<b>64</b>	52	63	36

**Depot:** RIPTAM  
**Unique No:** 11056625  
**Signed:** Wes Davis  
**Report Date:** 30 May 2024

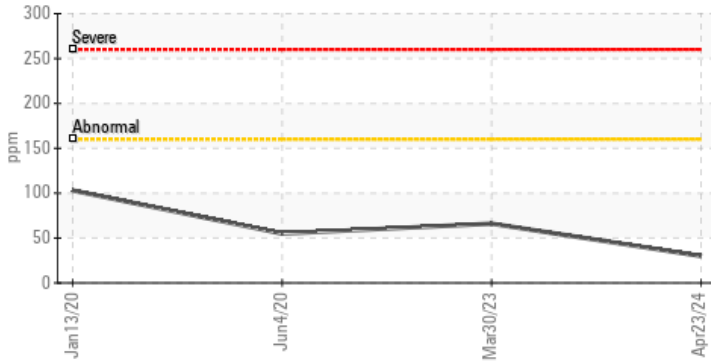


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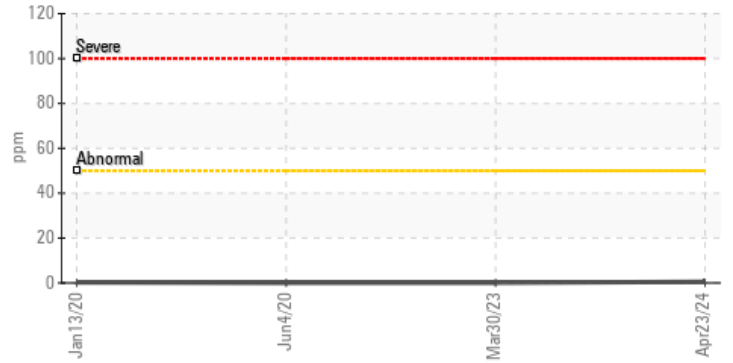


## GRAPHS

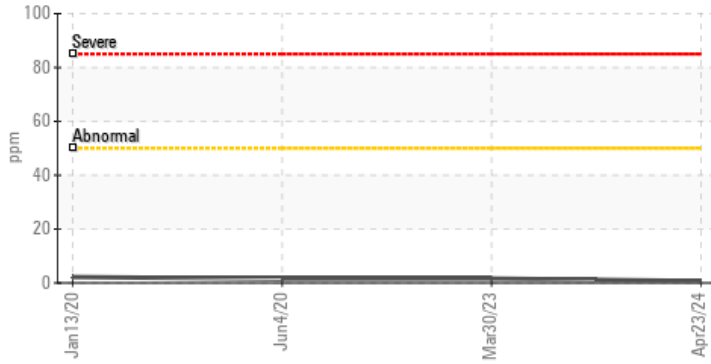
### Iron (ppm)



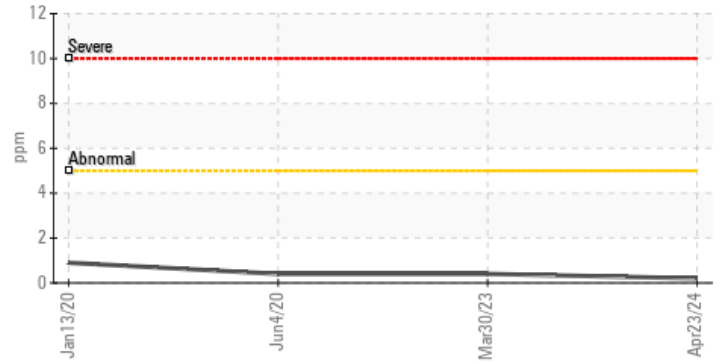
### Lead (ppm)



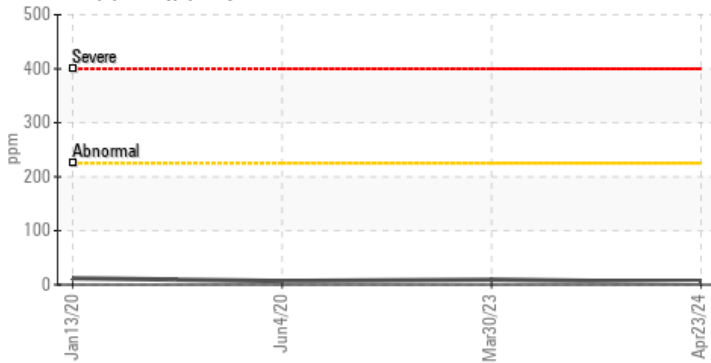
### Aluminum (ppm)



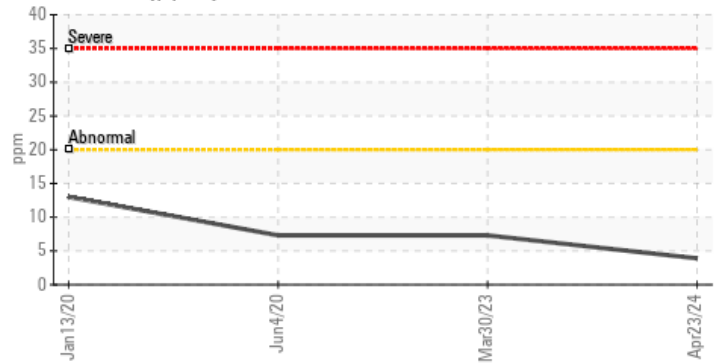
### Chromium (ppm)



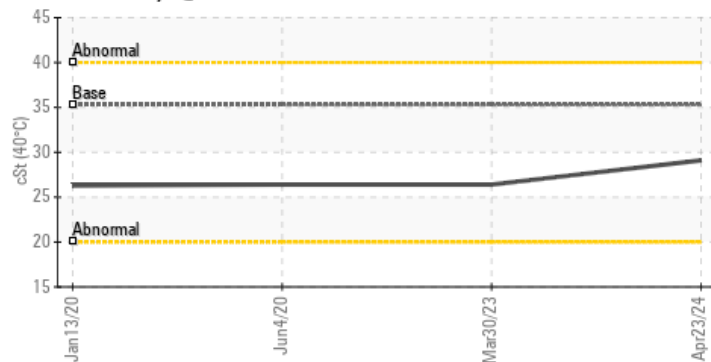
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

