



# CONSTRUCTION EQUIPMENT

SW1020029 VOLVO L90F 68176 - TRANSMISSION (AUTO)



**Sample No:** VCP406939  
**Oil Type:** VOLVO AUTOMATIC TRANSMISSION FLUID AT102  
**Job No:** SW1020029



## SAMPLE INFORMATION

Sample Number	<b>VCP406939</b>	VCP307506	VCP149249	VCP154497
Sample Date	<b>09 Jun 2023</b>	14 Apr 2023	21 Jul 2017	12 Sep 2013
Machine Hours	<b>15077</b>	14827	9510	2497
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Chngd	Changed	Changed
Sample Status	<b>ABNORMAL</b>	ABNORMAL	NORMAL	NORMAL

**PAVESTONE COMPANY-PHOENIX**  
 1835 EAST UNIVERSITY DRIVE  
 PHOENIX, AZ  
 US 85034  
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 T: (623)297-7195  
 F:



## OIL CONDITION

Visc @ 40°C	cSt	<b>28.6</b>	28.4	26.39	21.54
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## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>2</b>	2	3	5
Sodium	ppm	<b>2</b>	1	4	7
Potassium	ppm	<b>0</b>	0	4	6

## Diagnosis

No corrective action is recommended at this time. The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor. The lead level is abnormal. All other 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>10</b>	8	16	43
Copper	ppm	<b>28</b>	12	2	9
Lead	ppm	<b>71</b>	69	2	28
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>&lt;1</b>	<1	2	2
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	0	0	<1
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	3
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>510</b>	460	88	150
Magnesium	ppm	<b>0</b>	2	<1	2
Zinc	ppm	<b>192</b>	175	27	79
Phosphorus	ppm	<b>333</b>	314	175	227
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>84</b>	75	65	63

**Depot:** PAVPHO  
**Unique No:** 10522393  
**Signed:** Sean Felton  
**Report Date:** 20 Jun 2023

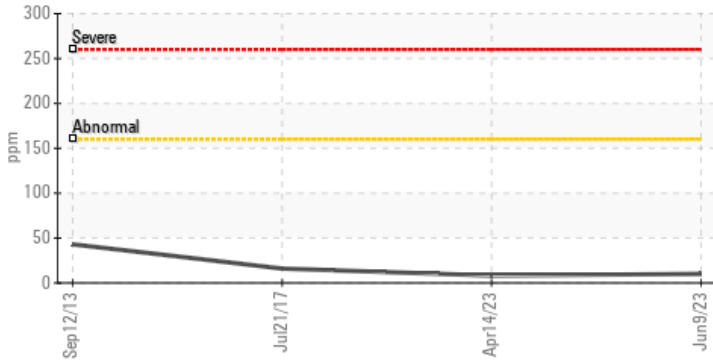


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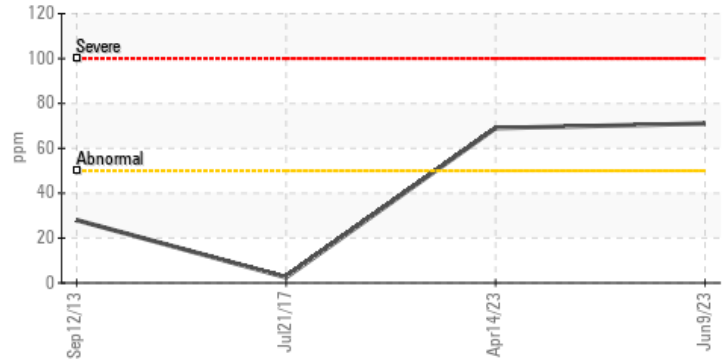


## GRAPHS

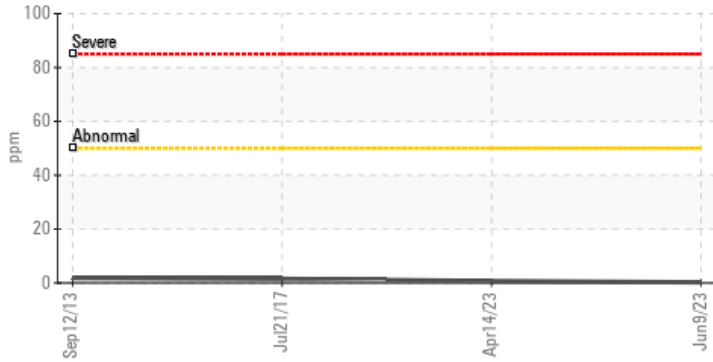
### Iron (ppm)



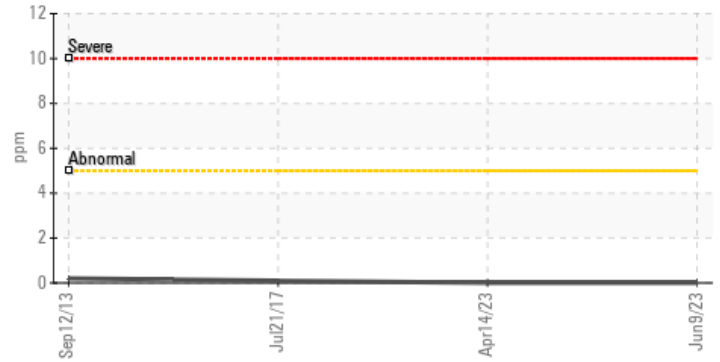
### Lead (ppm)



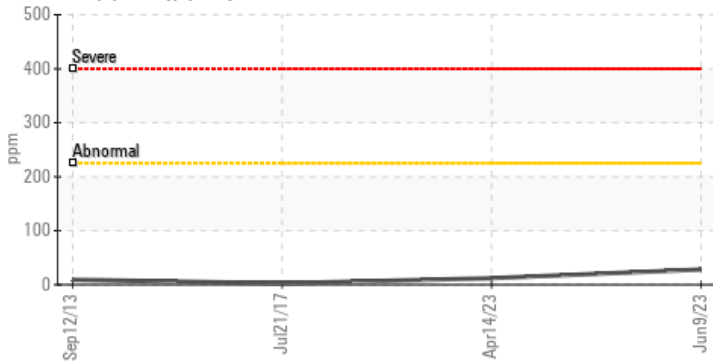
### Aluminum (ppm)



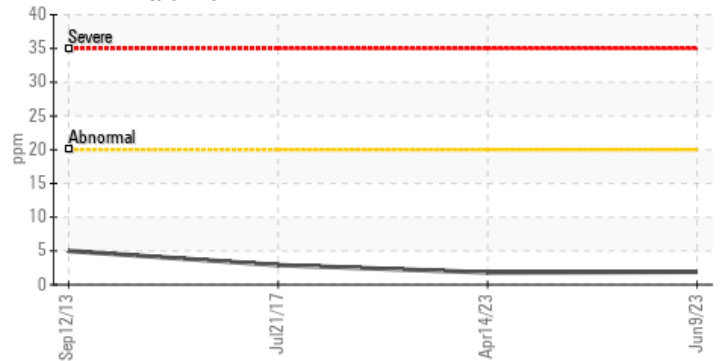
### Chromium (ppm)



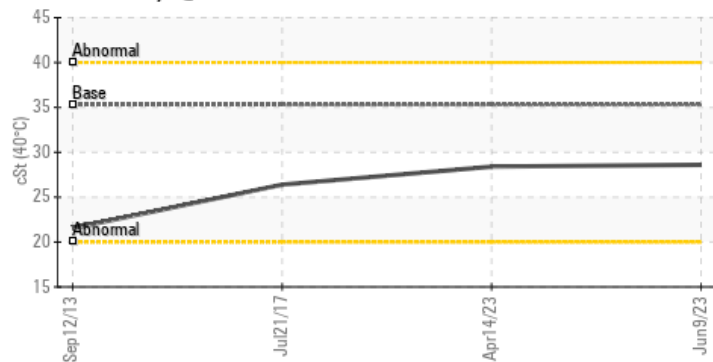
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

