



# CONSTRUCTION EQUIPMENT

## VOLVO L90H 625035 - FRONT AXLE



**Sample No:** VCP444261  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP444261</b>	VCP395993	---	---
Sample Date	<b>15 Feb 2024</b>	30 Jan 2023	---	---
Machine Hours	<b>3984</b>	3010	---	---
Oil Hours	<b>0</b>	1000	---	---
Oil Changed	<b>Changed</b>	Not Changd	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

### 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>47.2</b>	47.7	---	---
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Silicon	ppm	<b>20</b>	21	---	---
Sodium	ppm	<b>4</b>	3	---	---
Potassium	ppm	<b>&lt;1</b>	0	---	---

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



### WEAR METALS

Iron	ppm	<b>78</b>	64	---	---
Copper	ppm	<b>0</b>	<1	---	---
Lead	ppm	<b>1</b>	1	---	---
Tin	ppm	<b>&lt;1</b>	<1	---	---
Aluminum	ppm	<b>1</b>	<1	---	---
Chromium	ppm	<b>2</b>	2	---	---
Molybdenum	ppm	<b>3</b>	4	---	---
Nickel	ppm	<b>0</b>	<1	---	---
Titanium	ppm	<b>0</b>	<1	---	---
Silver	ppm	<b>0</b>	3	---	---
Manganese	ppm	<b>5</b>	5	---	---
Vanadium	ppm	<b>0</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>3516</b>	3969	---	---
Magnesium	ppm	<b>11</b>	19	---	---
Zinc	ppm	<b>1338</b>	1527	---	---
Phosphorus	ppm	<b>1195</b>	1172	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>121</b>	138	---	---

**Depot:** RIPTAM  
**Unique No:** 10900833  
**Signed:** Don Baldrige  
**Report Date:** 29 Feb 2024



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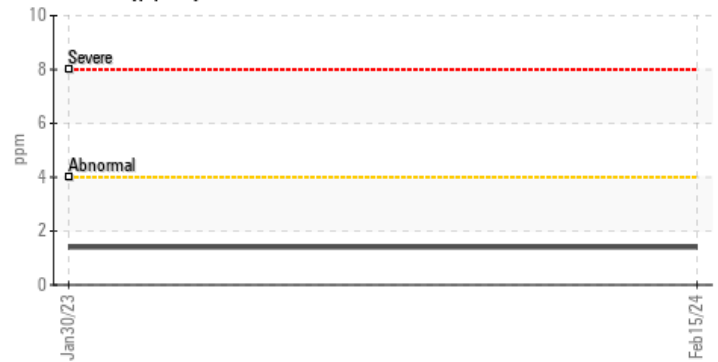


## GRAPHS

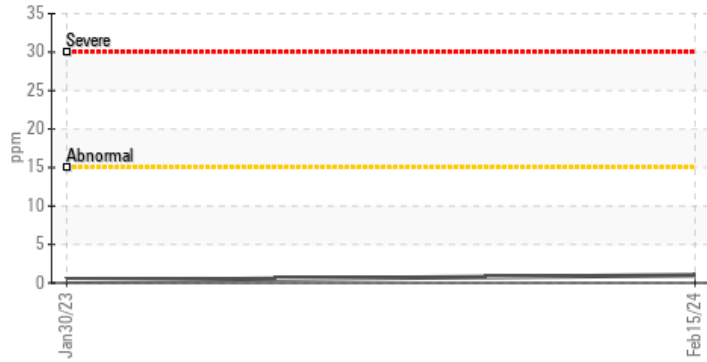
### Iron (ppm)



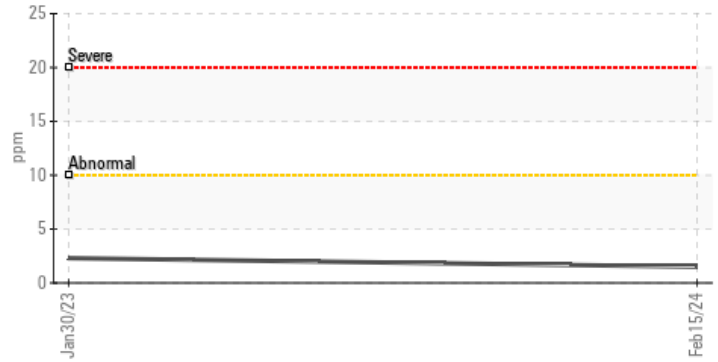
### Lead (ppm)



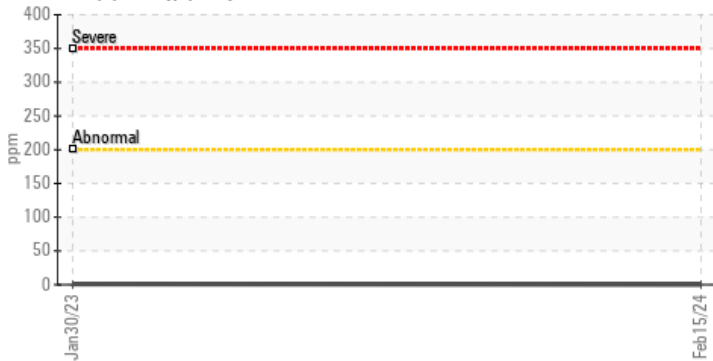
### Aluminum (ppm)



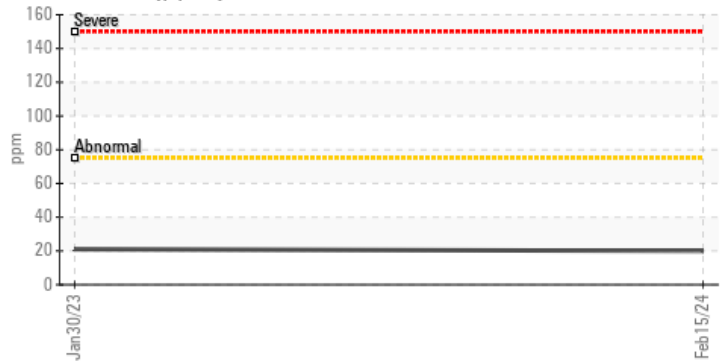
### Chromium (ppm)



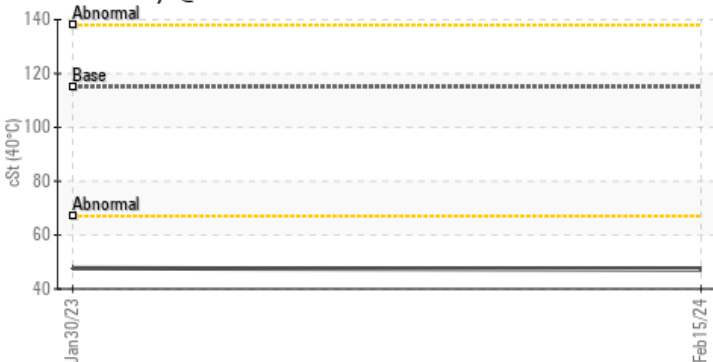
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

