



# CONSTRUCTION EQUIPMENT

IMPACT AUTO 396842 VOLVO L90H 625974 - FRONT AXLE



**Sample No:** VCP450164  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 396842



## SAMPLE INFORMATION

Sample Number	<b>VCP450164</b>	VCP394413	---	---
Sample Date	<b>04 Mar 2024</b>	14 Dec 2023	---	---
Machine Hours	<b>4543</b>	4045	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Not Chngd</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

### STRONGCO EQUIPMENT-EDMONTON

25616 117 Ave NW  
 Acheson, AB  
 CA T7X 6C2

Contact: Jonathan Morton  
 jmorton@strongco.com  
 T: (780)464-1909  
 F: (780)464-0434



## OIL CONDITION

Visc @ 40°C	cSt	<b>42.7</b>	■ 42.8	---	---
-------------	-----	-------------	--------	-----	-----



## CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	■ 12	■ 11	---	---
Sodium	ppm	■ <1	■ 8	---	---
Potassium	ppm	■ <1	■ 0	---	---



## WEAR METALS

Iron	ppm	■ 21	■ 52	---	---
Copper	ppm	■ <1	■ 6	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	■ 1	■ 1	---	---
Chromium	ppm	■ <1	■ 1	---	---
Molybdenum	ppm	■ <1	■ 2	---	---
Nickel	ppm	■ <1	■ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	■ 1	■ 3	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	<b>4127</b>	■ 4136	---	---
Magnesium	ppm	■ 19	■ 11	---	---
Zinc	ppm	<b>1621</b>	■ 1585	---	---
Phosphorus	ppm	■ 1314	■ 1311	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 117	■ 114	---	---

## Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO3908  
**Unique No:** 5737128  
**Signed:** Wes Davis  
**Report Date:** 05 Mar 2024

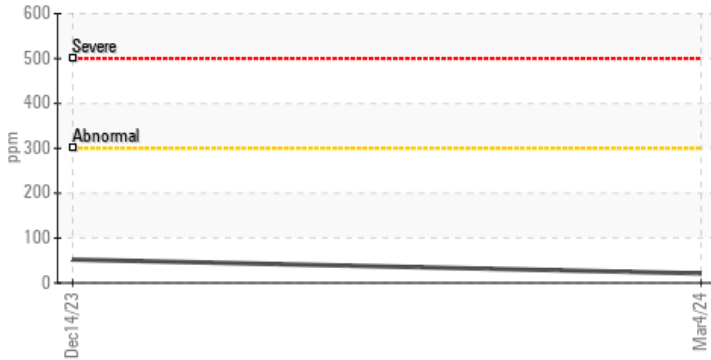


# CONSTRUCTION EQUIPMENT

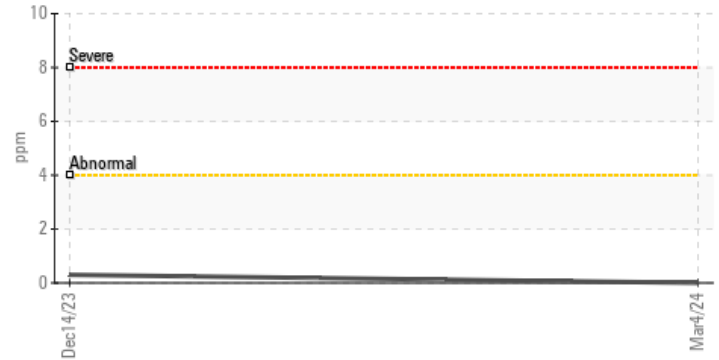


## GRAPHS

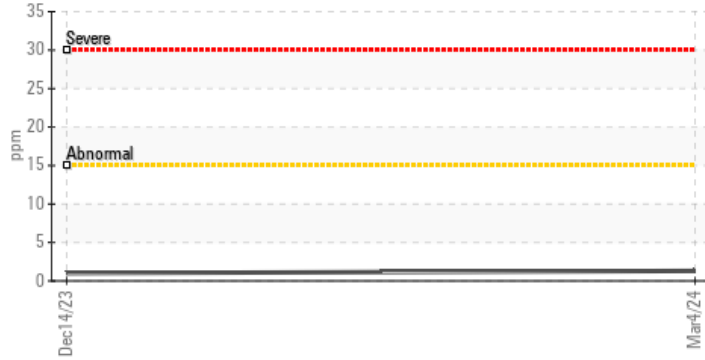
### Iron (ppm)



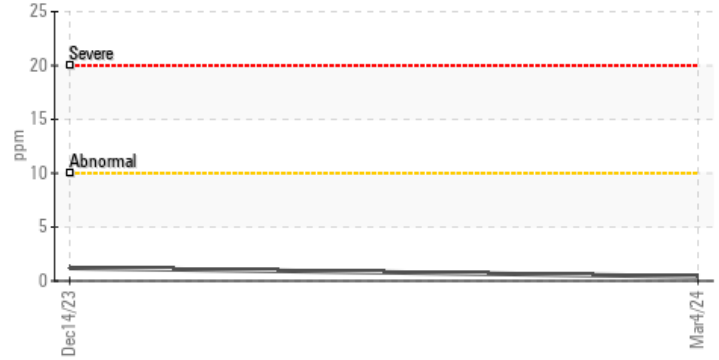
### Lead (ppm)



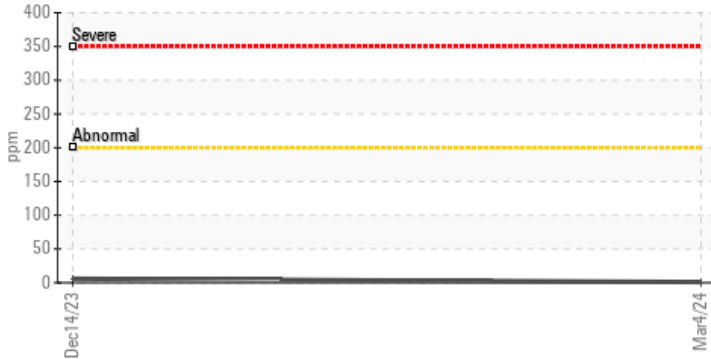
### Aluminum (ppm)



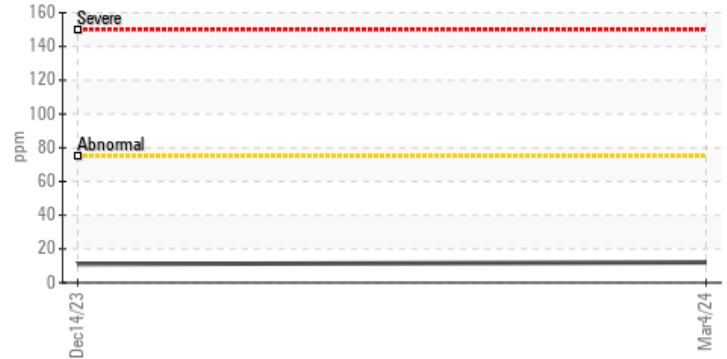
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

