



# CONSTRUCTION EQUIPMENT

S-50601595 GWR VOLVO L45H 4222050 - DIESEL ENGINE



**Sample No:** VCP403523  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** S-50601595 GWR



## SAMPLE INFORMATION

Sample Number	VCP403523	---	---	---
Sample Date	26 Jan 2024	---	---	---
Machine Hours	4901	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
 1944 MARINA BLVD  
 SAN LEANDRO, CA  
 US 94577  
 Contact: JOHN BUDESILICH  
 john.budesilich@vcesvolvo.com  
 T:  
 F: (925)294-9240



## OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	---	---	---
Base Number (BN)	mg KOH/g	█ 5.5	---	---	---
Oxidation (PA)	%	89	---	---	---

## 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	100	---	---	---
Sulfation (PA)	%	67	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---



## WEAR METALS

Iron	ppm	█ 14	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 5	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 91	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	█ 2225	---	---	---
Magnesium	ppm	35	---	---	---
Zinc	ppm	█ 1203	---	---	---
Phosphorus	ppm	█ 994	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 34	---	---	---

**Depot:** VOLVO4487  
**Unique No:** 10856385  
**Signed:** Don Baldrige  
**Report Date:** 31 Jan 2024



# CONSTRUCTION EQUIPMENT

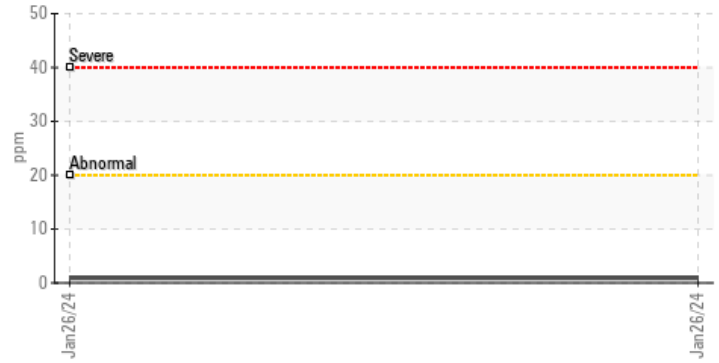


## GRAPHS

### Iron (ppm)



### Lead (ppm)



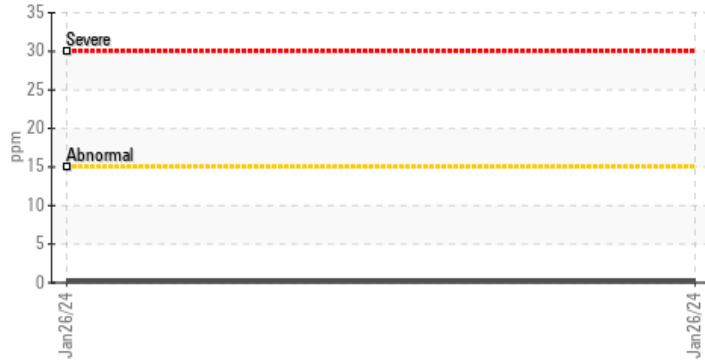
### Aluminum (ppm)



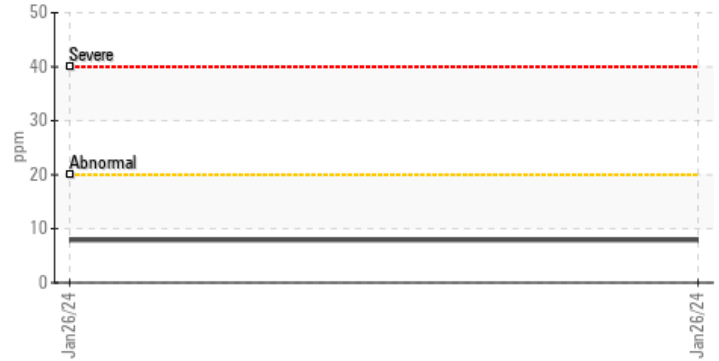
### Chromium (ppm)



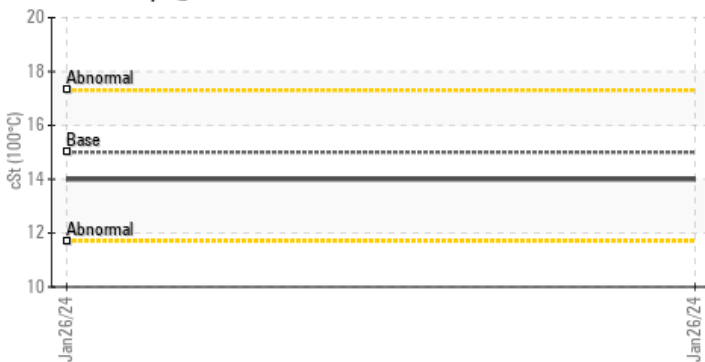
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

