



# CONSTRUCTION EQUIPMENT

W0229918 VOLVO L60H 623400 - DIESEL ENGINE



**Sample No:** VCP428597  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** W0229918



## SAMPLE INFORMATION

Sample Number	VCP428597	---	---	---
Sample Date	31 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	578	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 9.1	---	---	---
Oxidation (PA)	%	76	---	---	---

## Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	62	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 39	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 0	---	---	---



## WEAR METALS

Iron	ppm	█ 38	---	---	---
Copper	ppm	█ 7	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	▲ 39	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 47	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 1559	---	---	---
Magnesium	ppm	█ 602	---	---	---
Zinc	ppm	█ 1129	---	---	---
Phosphorus	ppm	█ 942	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 61	---	---	---

**Depot:** VOLVO0081  
**Unique No:** 10862446  
**Signed:** Sean Felton  
**Report Date:** 07 Feb 2024

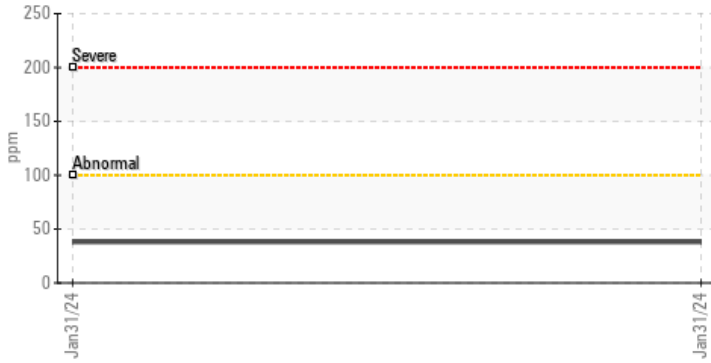


# CONSTRUCTION EQUIPMENT



## GRAPHS

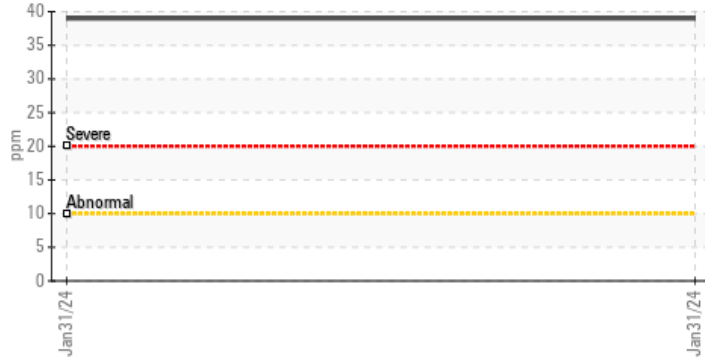
### Iron (ppm)



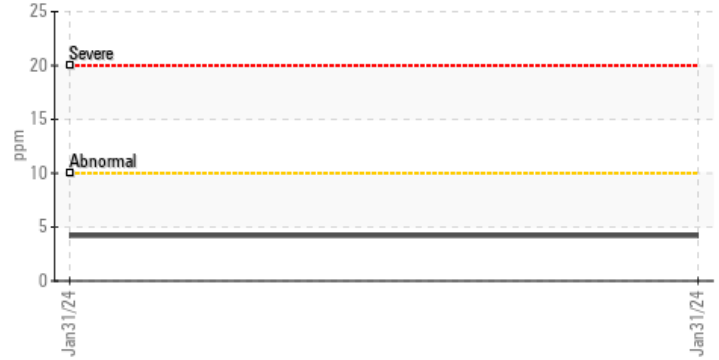
### Lead (ppm)



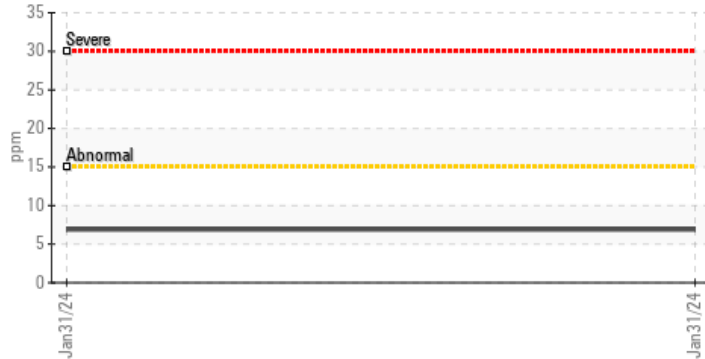
### Aluminum (ppm)



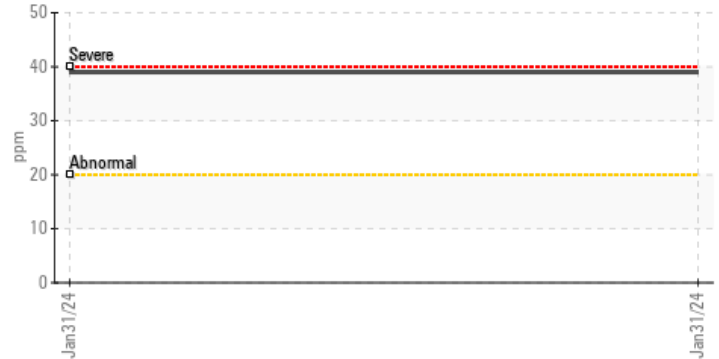
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

