



# CONSTRUCTION EQUIPMENT

SW1030209 SUNLAND VOLVO DD140C 290108 - DIESEL ENGINE



**Sample No:** VCP437337  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SW1030209 SUNLAND



## SAMPLE INFORMATION

Sample Number	VCP437337	---	---	---
Sample Date	21 Feb 2024	---	---	---
Machine Hours	955	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Base Number (BN)	mg KOH/g	█ 8.0	---	---	---
Oxidation (PA)	%	79	---	---	---

## Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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 %	%	█ 0.2	---	---	---
Nitration (PA)	%	74	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 29	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 5	---	---	---



## WEAR METALS

Iron	ppm	█ 49	---	---	---
Copper	ppm	█ 43	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	█ 25	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 28	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 1605	---	---	---
Magnesium	ppm	█ 494	---	---	---
Zinc	ppm	█ 1202	---	---	---
Phosphorus	ppm	█ 969	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 48	---	---	---

**Depot:** VOLVO6174  
**Unique No:** 10903315  
**Signed:** Wes Davis  
**Report Date:** 01 Mar 2024



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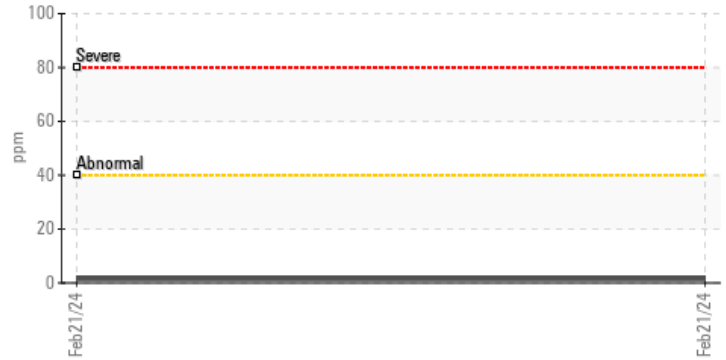


## GRAPHS

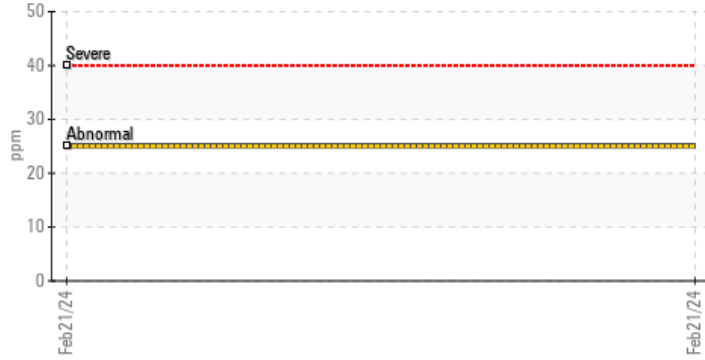
### Iron (ppm)



### Lead (ppm)



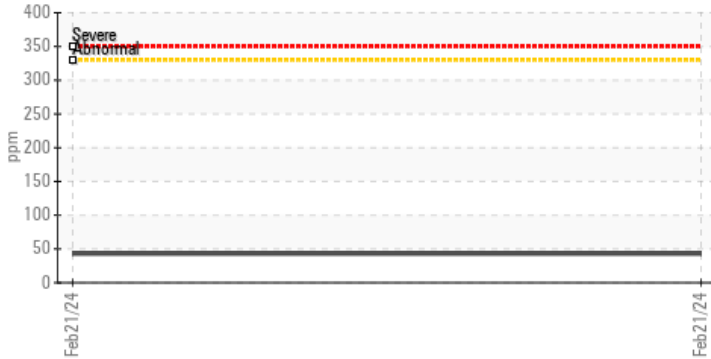
### Aluminum (ppm)



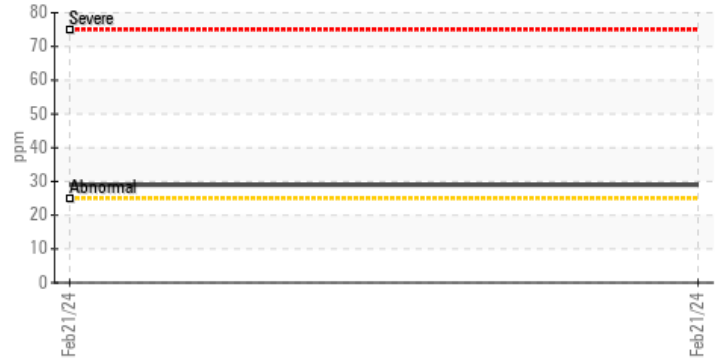
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

