



# CONSTRUCTION EQUIPMENT

SPM647582-1 VOLVO EC950FL 410168 - DIESEL ENGINE



**Sample No:** VCP436260  
**Oil Type:** {unknown}  
**Job No:** SPM647582-1



## SAMPLE INFORMATION

Sample Number	VCP436260	---	---	---
Sample Date	15 Jan 2024	---	---	---
Machine Hours	731	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

**ALTA EQUIPMENT COMPANY**  
5151 DR MARTIN LUTHER KING BLVD  
FORT MYERS, FL  
US 33905  
Contact: TODD LARK  
tlark@altaequipfl.com  
T:  
F: (239)481-3302



## OIL CONDITION

Visc @ 100°C	cSt	11.2	---	---	---
Base Number (BN)	mg KOH/g	5.4	---	---	---
Oxidation (PA)	%	68	---	---	---



## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	1.9	---	---	---
Nitration (PA)	%	96	---	---	---
Sulfation (PA)	%	65	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	3.1	---	---	---
Silicon	ppm	39	---	---	---
Sodium	ppm	5	---	---	---
Potassium	ppm	22	---	---	---



## WEAR METALS

Iron	ppm	57	---	---	---
Copper	ppm	132	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	6	---	---	---
Aluminum	ppm	10	---	---	---
Chromium	ppm	3	---	---	---
Molybdenum	ppm	74	---	---	---
Nickel	ppm	8	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	2157	---	---	---
Magnesium	ppm	47	---	---	---
Zinc	ppm	1103	---	---	---
Phosphorus	ppm	925	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	8	---	---	---

## Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The nickel level is abnormal. All other metal levels are typical for a new component breaking in. Fuel content negligible. 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 acceptable for the time in service.

**Depot:** VOLVO0090  
**Unique No:** 10857558  
**Signed:** Jonathan Hester  
**Report Date:** 02 Feb 2024

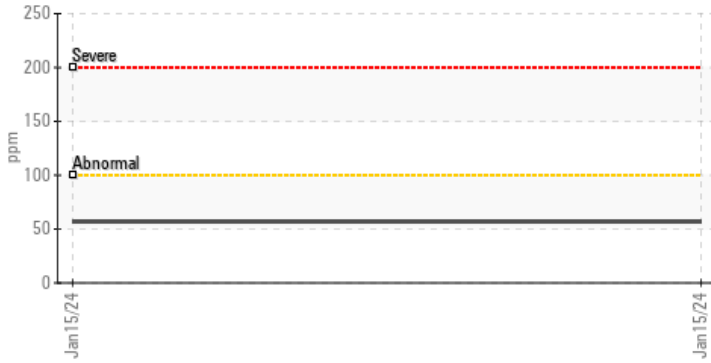


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## GRAPHS

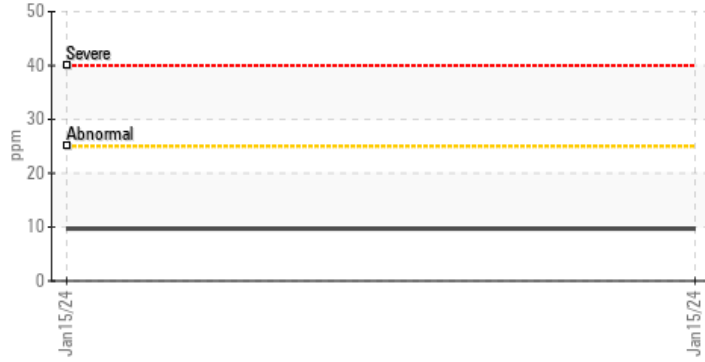
### Iron (ppm)



### Lead (ppm)



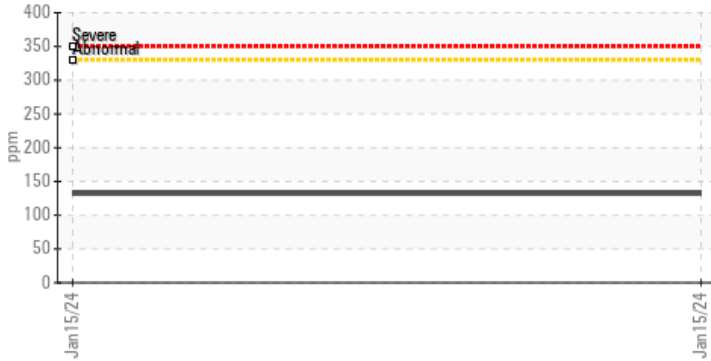
### Aluminum (ppm)



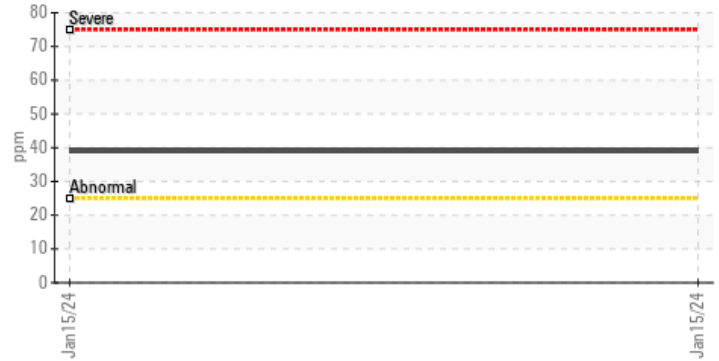
### Chromium (ppm)



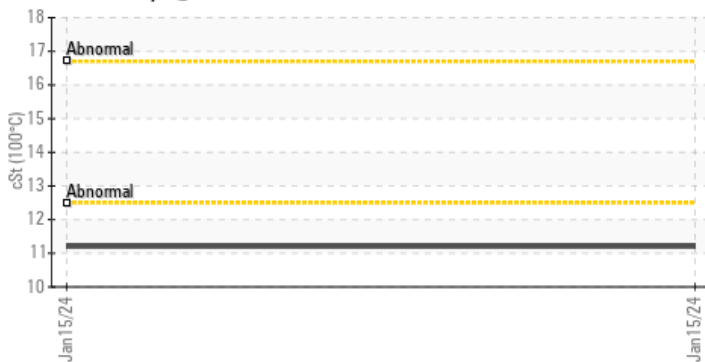
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

