



# CONSTRUCTION EQUIPMENT - DIESEL ENGINE



**Sample No:** VCP451395  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



## SAMPLE INFORMATION

Sample Number	<b>VCP451395</b>	VCP437736	---	---
Sample Date	<b>24 Jun 2024</b>	06 Feb 2024	---	---
Machine Hours	<b>800</b>	56	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	N/A	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.2</b>	12.2	---	---
Base Number (BN)	mg KOH/g	<b>8.9</b>	6.4	---	---
Oxidation (PA)	%	<b>77</b>	51	---	---



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.4</b>	0	---	---
Nitration (PA)	%	<b>60</b>	33	---	---
Sulfation (PA)	%	<b>60</b>	53	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	0.4	---	---
Silicon	ppm	<b>9</b>	4	---	---
Sodium	ppm	<b>&lt;1</b>	<1	---	---
Potassium	ppm	<b>1</b>	1	---	---



## WEAR METALS

Iron	ppm	<b>13</b>	<1	---	---
Copper	ppm	<b>4</b>	2	---	---
Lead	ppm	<b>0</b>	0	---	---
Tin	ppm	<b>2</b>	<1	---	---
Aluminum	ppm	<b>2</b>	2	---	---
Chromium	ppm	<b>&lt;1</b>	0	---	---
Molybdenum	ppm	<b>46</b>	65	---	---
Nickel	ppm	<b>3</b>	0	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>0</b>	<1	---	---
Vanadium	ppm	<b>0</b>	0	---	---



## ADDITIVES

Calcium	ppm	<b>1566</b>	1072	---	---
Magnesium	ppm	<b>465</b>	271	---	---
Zinc	ppm	<b>1144</b>	1006	---	---
Phosphorus	ppm	<b>881</b>	874	---	---
Barium	ppm	<b>0</b>	<1	---	---
Boron	ppm	<b>50</b>	306	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. 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:** 11098970  
**Signed:** Angela Borella  
**Report Date:** 27 Jun 2024

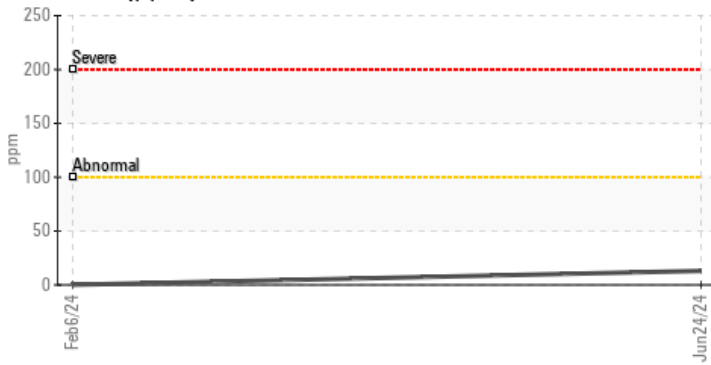


# CONSTRUCTION EQUIPMENT



## GRAPHS

### Iron (ppm)



### Lead (ppm)



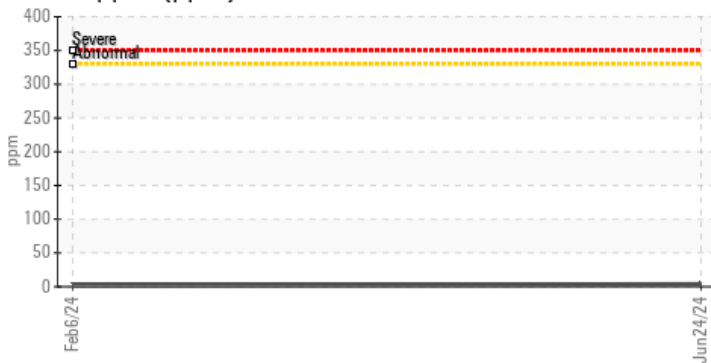
### Aluminum (ppm)



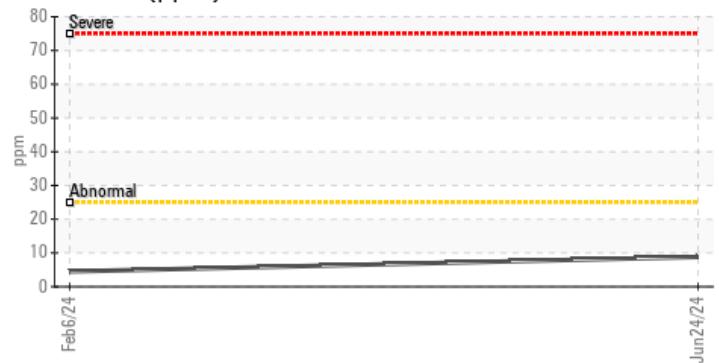
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

