



# CONSTRUCTION EQUIPMENT

591905 RENTALS VOLVO EC480 315325 - DIESEL ENGINE



**Sample No:** VCP450881  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 591905 RENTALS



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## SAMPLE INFORMATION

Sample Number	VCP450881	VCP438951	---	---
Sample Date	20 Jun 2024	30 Jan 2024	---	---
Machine Hours	1672	600	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ATTENTION	---	---

## OIL CONDITION

Visc @ 100°C	cSt	12.2	10.7	---	---
Base Number (BN)	mg KOH/g	8.3	4.7	---	---
Oxidation (PA)	%	69	68	---	---

## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	67	82	---	---
Sulfation (PA)	%	57	59	---	---
Glycol	%	NEG	0.0	---	---
Fuel	%	<1.0	0.7	---	---
Silicon	ppm	9	31	---	---
Sodium	ppm	4	3	---	---
Potassium	ppm	2	2	---	---

## WEAR METALS

Iron	ppm	7	15	---	---
Copper	ppm	10	138	---	---
Lead	ppm	<1	2	---	---
Tin	ppm	<1	2	---	---
Aluminum	ppm	3	2	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	54	87	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	<1	0	---	---

## ADDITIVES

Calcium	ppm	1336	2180	---	---
Magnesium	ppm	851	25	---	---
Zinc	ppm	1305	1199	---	---
Phosphorus	ppm	1037	983	---	---
Barium	ppm	0	0	---	---
Boron	ppm	6	13	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO0096  
**Unique No:** 11100182  
**Signed:** Don Baldrige  
**Report Date:** 28 Jun 2024

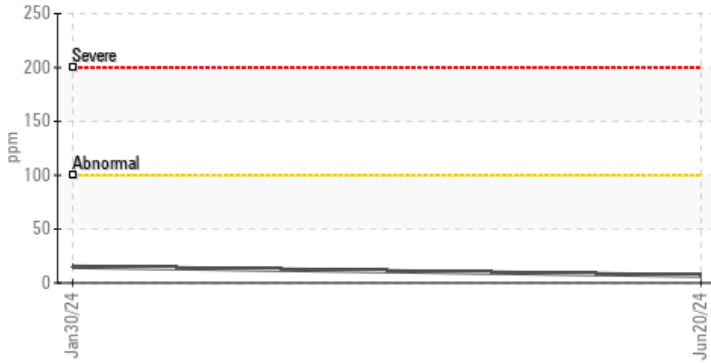


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## GRAPHS

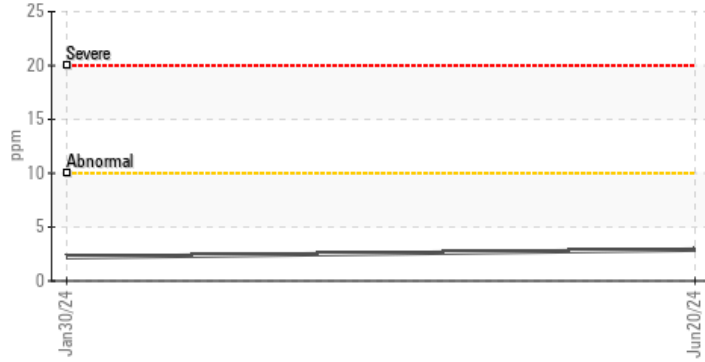
### Iron (ppm)



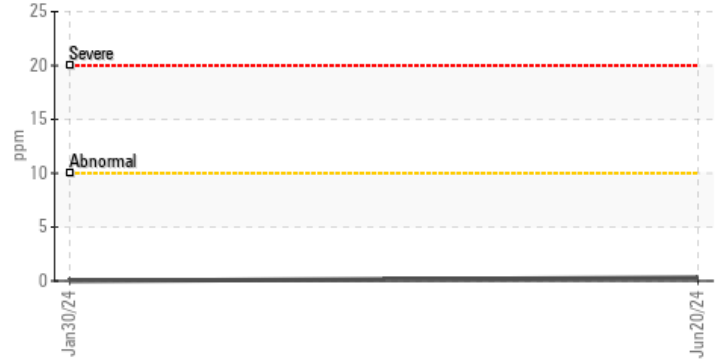
### Lead (ppm)



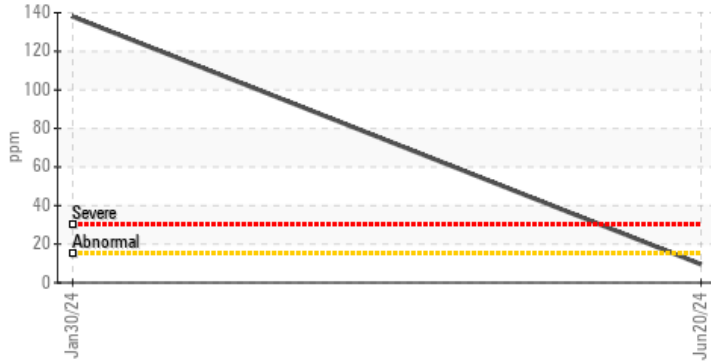
### Aluminum (ppm)



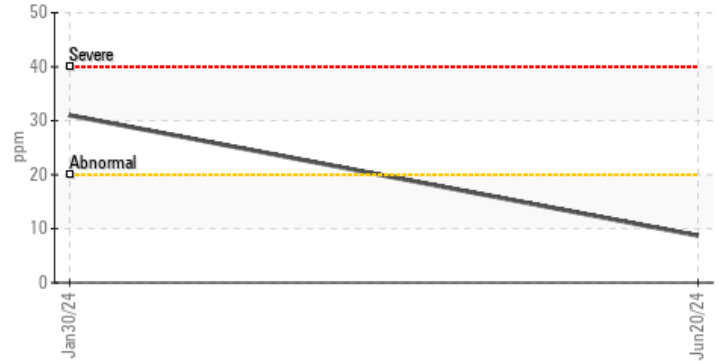
### Chromium (ppm)



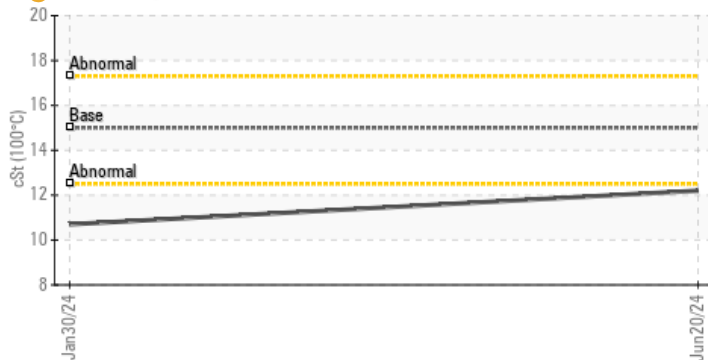
### Copper (ppm)



### Silicon (ppm)



### ● Viscosity @ 100°C



### Base Number

