



# CONSTRUCTION EQUIPMENT

587695 VOLVO L70H 623953 - DIESEL ENGINE



**Sample No:** VCP451021  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 587695



## SAMPLE INFORMATION

Sample Number	VCP451021	VCP357938	---	---
Sample Date	18 Jun 2024	27 Apr 2022	---	---
Machine Hours	7398	2062	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	█ 14.4	█ 13.8	---	---
Base Number (BN)	mg KOH/g	█ 6.8	█ 8.7	---	---
Oxidation (PA)	%	99	88	---	---

## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 1.5	█ 1.6	---	---
Nitration (PA)	%	118	110	---	---
Sulfation (PA)	%	76	77	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 12	█ 13	---	---
Sodium	ppm	█ 3	█ 2	---	---
Potassium	ppm	█ 3	█ 2	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. 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.

## WEAR METALS

Iron	ppm	█ 35	█ 52	---	---
Copper	ppm	█ 2	█ 5	---	---
Lead	ppm	█ <1	█ 3	---	---
Tin	ppm	█ <1	█ 2	---	---
Aluminum	ppm	▲ 27	█ 11	---	---
Chromium	ppm	█ 2	█ 2	---	---
Molybdenum	ppm	█ 51	█ 62	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	█ 0	█ 1	---	---
Vanadium	ppm	0	0	---	---

## ADDITIVES

Calcium	ppm	█ 2011	█ 1203	---	---
Magnesium	ppm	█ 538	█ 921	---	---
Zinc	ppm	█ 1355	█ 1281	---	---
Phosphorus	ppm	█ 1045	█ 994	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 12	█ <1	---	---

**Depot:** GREDAVFL  
**Unique No:** 11098944  
**Signed:** Jonathan Hester  
**Report Date:** 27 Jun 2024

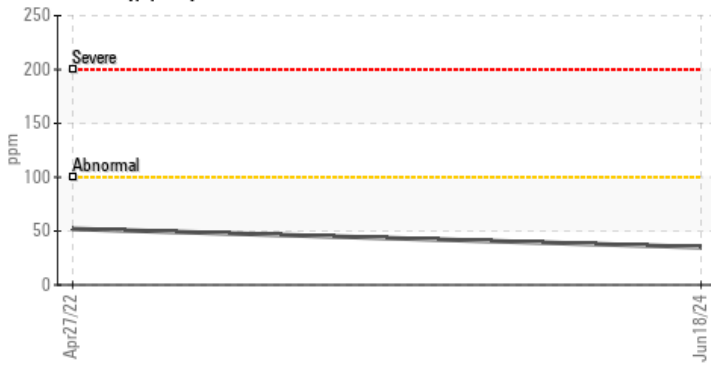


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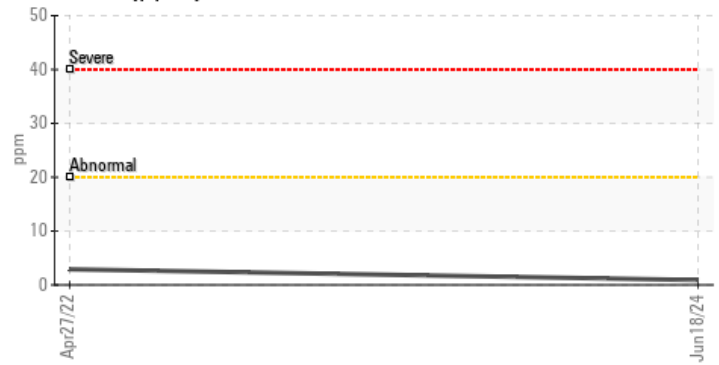


## GRAPHS

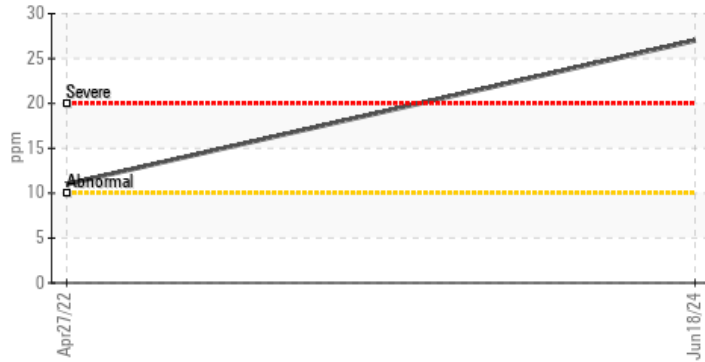
### Iron (ppm)



### Lead (ppm)



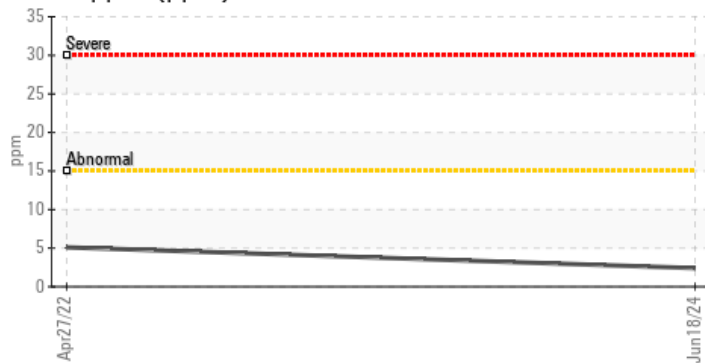
### Aluminum (ppm)



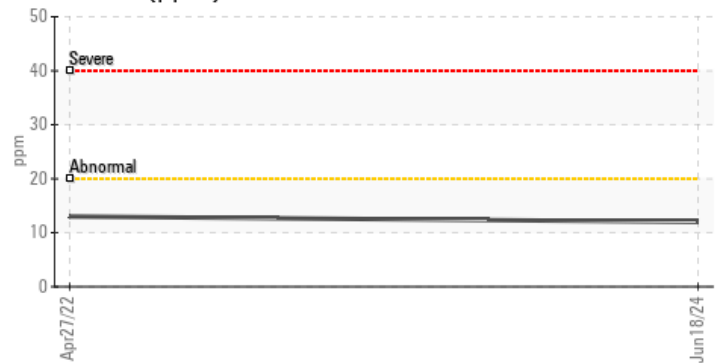
### Chromium (ppm)



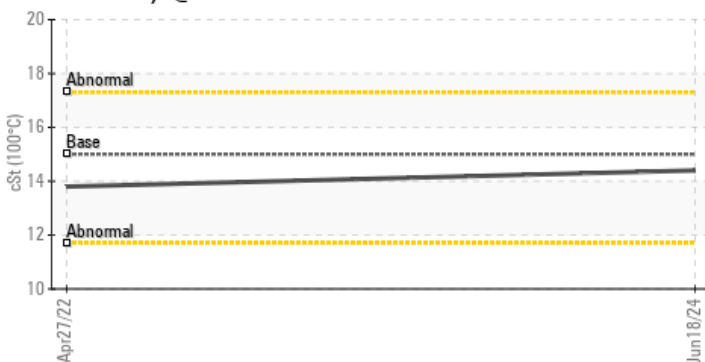
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

