



# CONSTRUCTION EQUIPMENT

## X59666 VOLVO L45H 12327 - DIESEL ENGINE



**Sample No:** VCP437410  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X59666



### SAMPLE INFORMATION

Sample Number	<b>VCP437410</b>	VCP406854	VCP374888	---
Sample Date	<b>05 Jun 2024</b>	20 Dec 2023	20 Jul 2022	---
Machine Hours	<b>3179</b>	2696	1352	---
Oil Hours	<b>0</b>	2696	500	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.3</b>	12.7	12.7	---
Base Number (BN)	mg KOH/g	<b>10.2</b>	9.6	11.3	---
Oxidation (PA)	%	<b>82</b>	84	86	---

### Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.3</b>	0.3	0.2	---
Nitration (PA)	%	<b>63</b>	67	65	---
Sulfation (PA)	%	<b>62</b>	62	67	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>8</b>	10	10	---
Sodium	ppm	<b>3</b>	2	2	---
Potassium	ppm	<b>&lt;1</b>	0	0	---

### WEAR METALS

Iron	ppm	<b>10</b>	10	13	---
Copper	ppm	<b>3</b>	4	5	---
Lead	ppm	<b>&lt;1</b>	0	<1	---
Tin	ppm	<b>&lt;1</b>	<1	1	---
Aluminum	ppm	<b>2</b>	2	2	---
Chromium	ppm	<b>&lt;1</b>	<1	1	---
Molybdenum	ppm	<b>40</b>	40	36	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	<1	0	---

### ADDITIVES

Calcium	ppm	<b>1817</b>	1616	1663	---
Magnesium	ppm	<b>521</b>	520	513	---
Zinc	ppm	<b>1128</b>	1141	1098	---
Phosphorus	ppm	<b>976</b>	991	861	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>39</b>	28	45	---

**Depot:** SCOSAI  
**Unique No:** 11071676  
**Signed:** Wes Davis  
**Report Date:** 11 Jun 2024

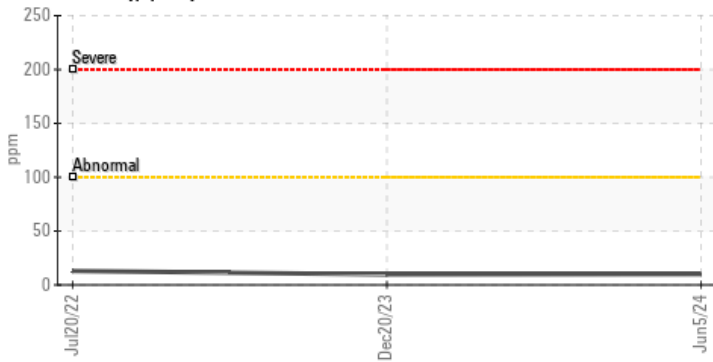


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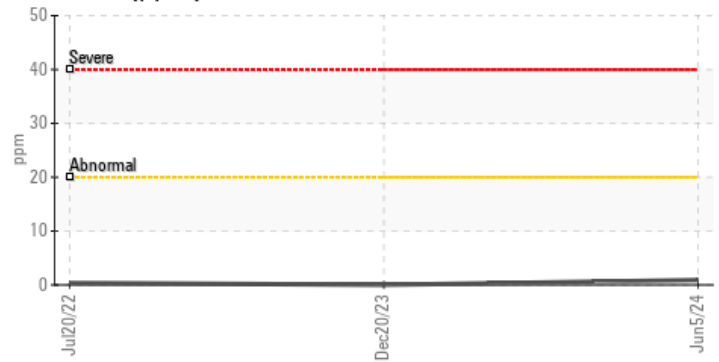


## GRAPHS

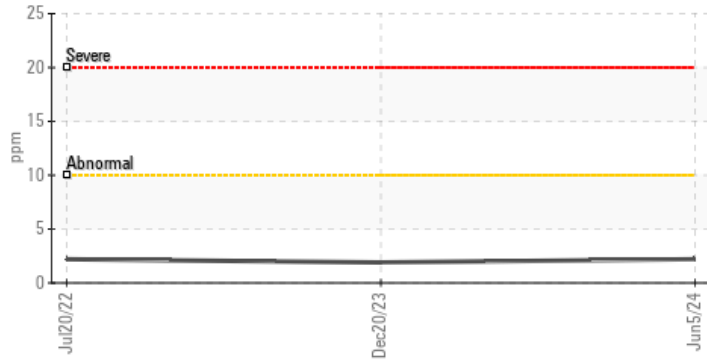
### Iron (ppm)



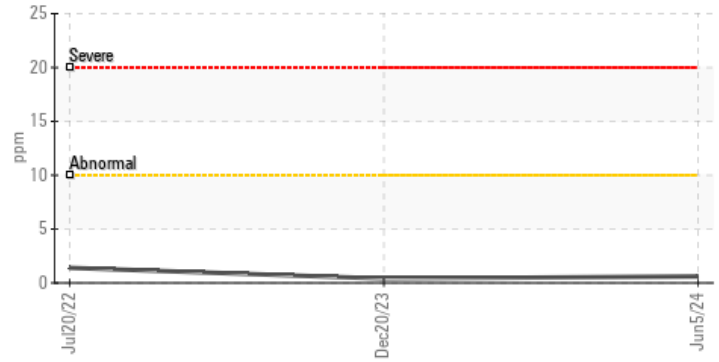
### Lead (ppm)



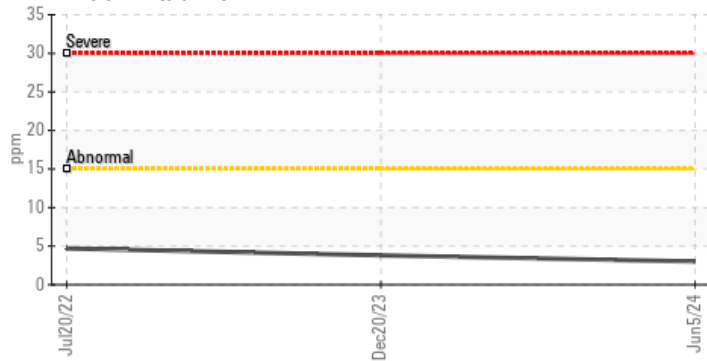
### Aluminum (ppm)



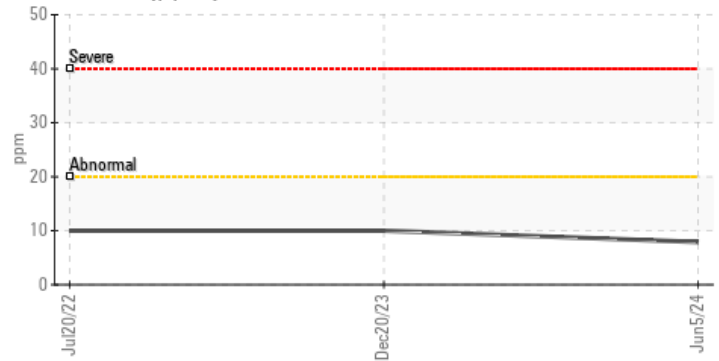
### Chromium (ppm)



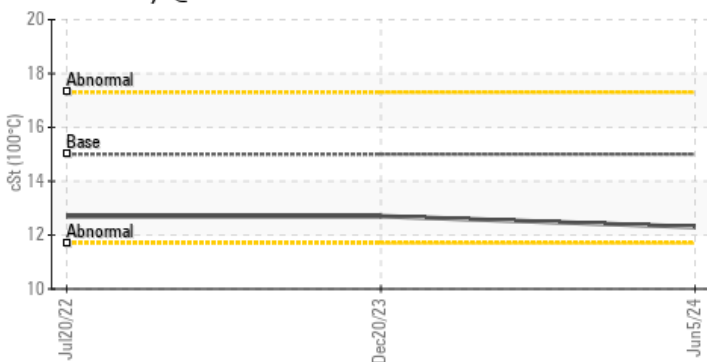
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

