



# CONSTRUCTION EQUIPMENT

W02007860 VOLVO L330E 62190 - DIESEL ENGINE



**Sample No:** VCP447929  
**Oil Type:** MOBIL 15W40  
**Job No:** W02007860



## SAMPLE INFORMATION

Sample Number	<b>VCP447929</b>	VCP418026	VCP397844	VCP390634
Sample Date	<b>04 Jan 2024</b>	29 Jun 2023	23 Feb 2023	28 Oct 2022
Machine Hours	<b>6177</b>	5530	15332	14854
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	12.4	12.2	12.3
Base Number (BN)	mg KOH/g	<b>9.3</b>	8.8	9.2	11.0
Oxidation (PA)	%	<b>71</b>	67	63	75

## 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	NEG
Soot %	%	<b>0.2</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>58</b>	57	52	59
Sulfation (PA)	%	<b>59</b>	63	60	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	5	3
Sodium	ppm	<b>1</b>	<1	<1	4
Potassium	ppm	<b>0</b>	1	2	1



## WEAR METALS

Iron	ppm	<b>&lt;1</b>	3	2	3
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>3</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>3</b>	3	3	4
Chromium	ppm	<b>0</b>	<1	0	0
Molybdenum	ppm	<b>117</b>	117	105	50
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0



## ADDITIVES

Calcium	ppm	<b>1721</b>	1551	1520	1407
Magnesium	ppm	<b>551</b>	680	572	582
Zinc	ppm	<b>1051</b>	896	884	1065
Phosphorus	ppm	<b>908</b>	740	724	893
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>253</b>	380	280	47

**Depot:** VOLVO0002  
**Unique No:** 10820502  
**Signed:** Wes Davis  
**Report Date:** 09 Jan 2024

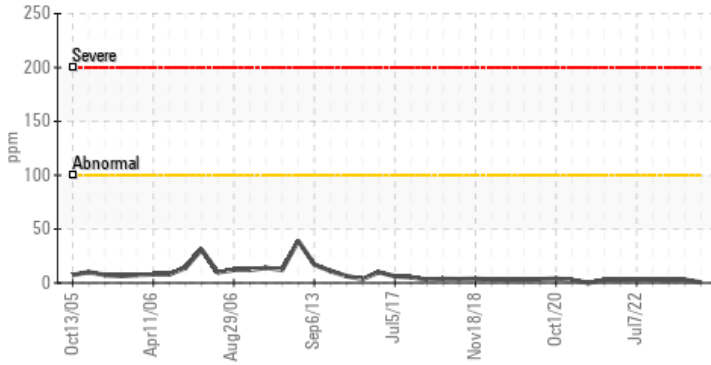


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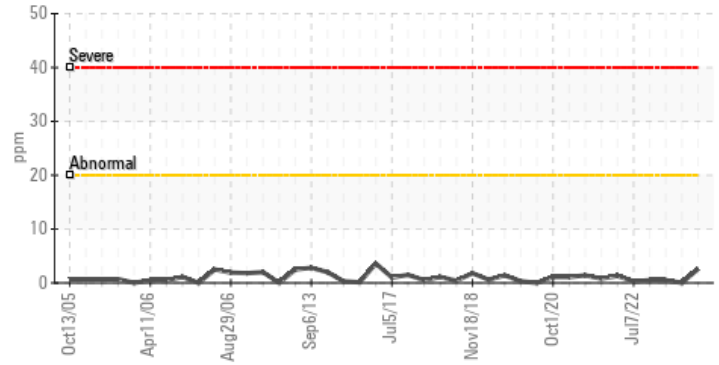


## GRAPHS

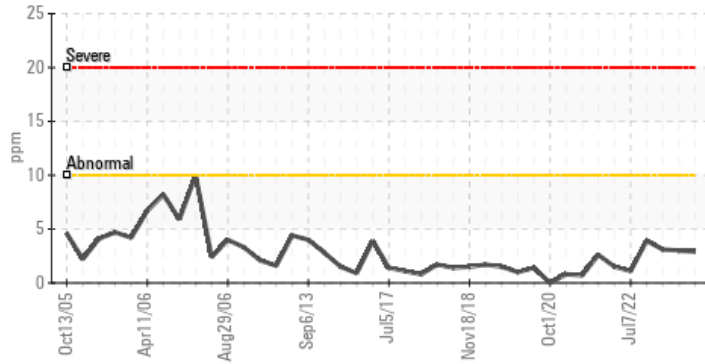
### Iron (ppm)



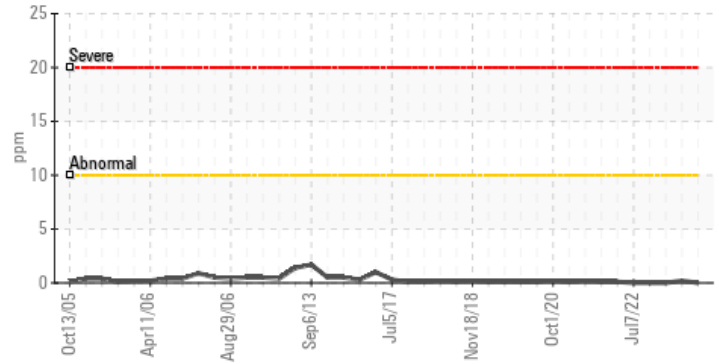
### Lead (ppm)



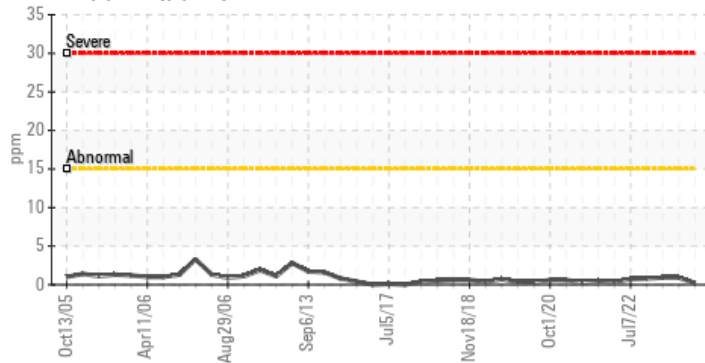
### Aluminum (ppm)



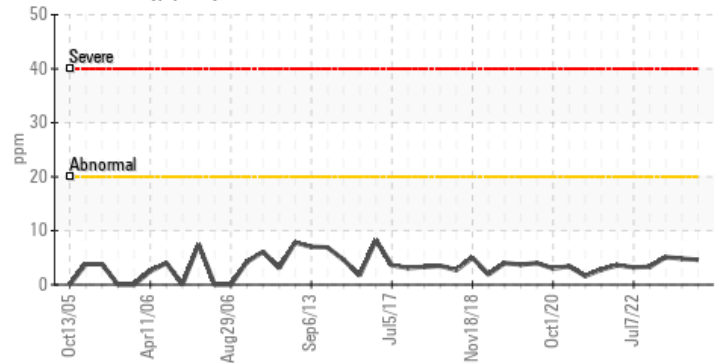
### Chromium (ppm)



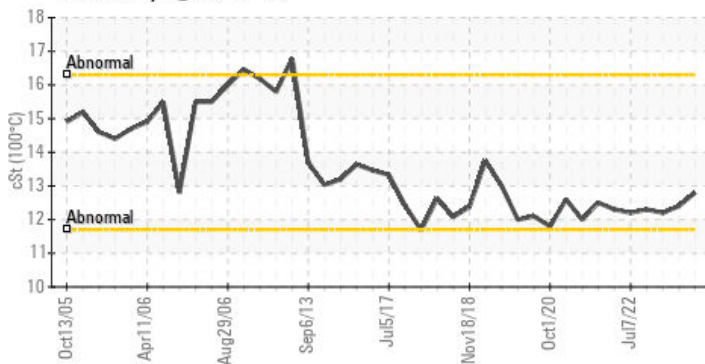
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

