



# CONSTRUCTION EQUIPMENT

## VOLVO L150F 14205 - DIESEL ENGINE



**Sample No:** VCP405997  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP405997</b>	VCP386161	VCP374990	VCP359610
Sample Date	<b>21 Jun 2023</b>	11 May 2023	27 Mar 2023	23 Feb 2023
Machine Hours	<b>24246</b>	23962	23632	23459
Oil Hours	<b>284</b>	330	173	199
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>12.7</b>	12.6	12.9	12.6
Base Number (BN)	mg KOH/g	<b>9.8</b>	10.0	10.1	10.2
Oxidation (PA)	%	<b>84</b>	82	77	80

### 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

Soot %	%	<b>0.2</b>	0.1	0.1	0.2
Nitration (PA)	%	<b>50</b>	51	46	57
Sulfation (PA)	%	<b>62</b>	62	61	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	4	4	4
Sodium	ppm	<b>2</b>	2	1	2
Potassium	ppm	<b>&lt;1</b>	3	0	1



### WEAR METALS

Iron	ppm	<b>2</b>	4	1	4
Copper	ppm	<b>&lt;1</b>	<1	<1	2
Lead	ppm	<b>0</b>	1	0	<1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>&lt;1</b>	2	<1	2
Chromium	ppm	<b>&lt;1</b>	<1	0	0
Molybdenum	ppm	<b>41</b>	38	38	38
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>1769</b>	1745	1570	1615
Magnesium	ppm	<b>535</b>	521	460	469
Zinc	ppm	<b>976</b>	952	818	861
Phosphorus	ppm	<b>800</b>	736	686	718
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>63</b>	58	60	53

**Depot:** SCHGRE  
**Unique No:** 10545758  
**Signed:** Wes Davis  
**Report Date:** 05 Jul 2023

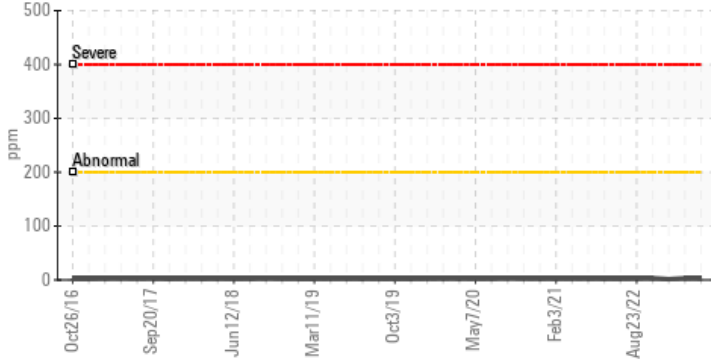


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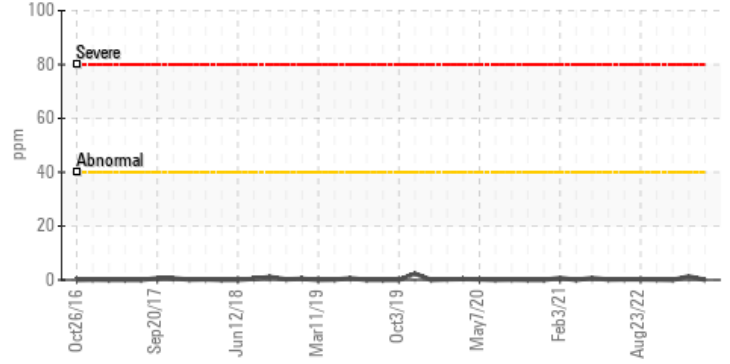


## GRAPHS

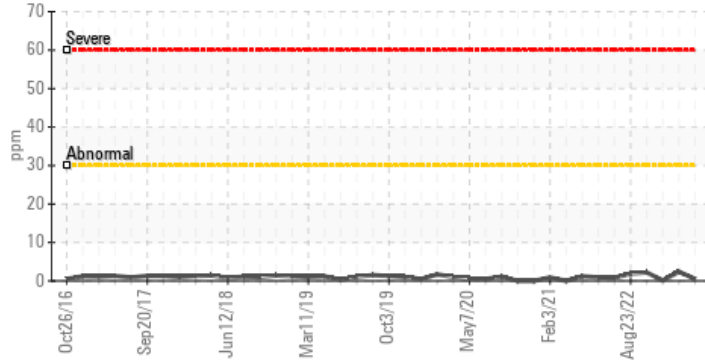
### Iron (ppm)



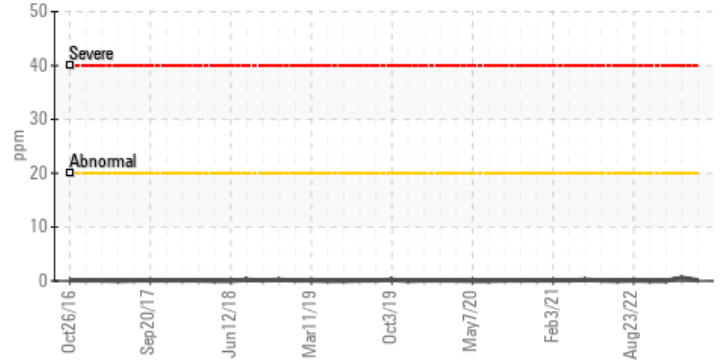
### Lead (ppm)



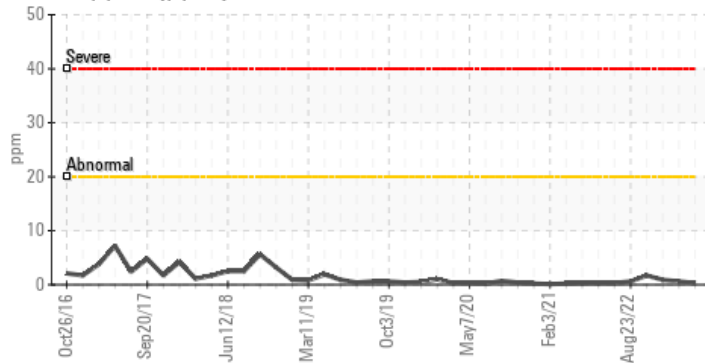
### Aluminum (ppm)



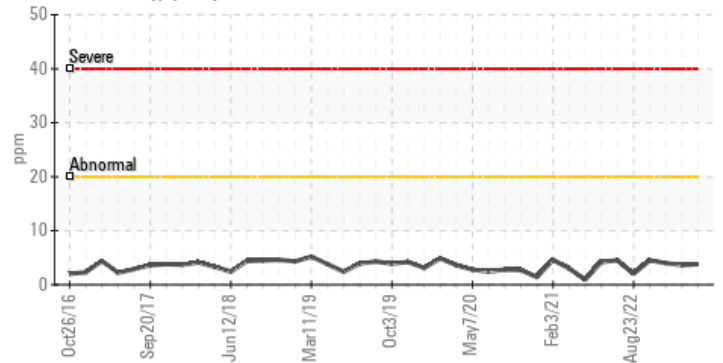
### Chromium (ppm)



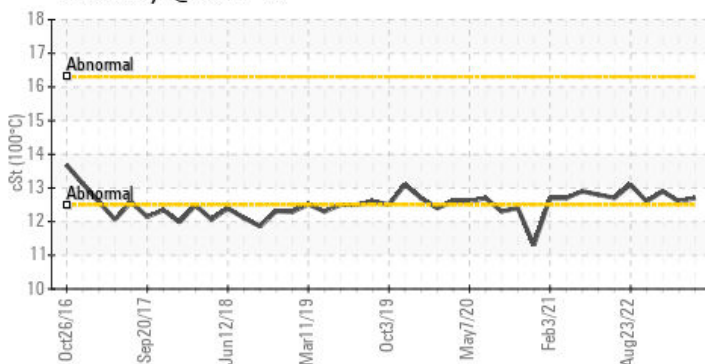
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

