



# CONSTRUCTION EQUIPMENT

## VOLVO L150F 14205 - DIESEL ENGINE



**Sample No:** VCP405984  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP405984</b>	VCP401931	VCP405997	VCP386161
Sample Date	<b>12 Sep 2023</b>	09 Aug 2023	21 Jun 2023	11 May 2023
Machine Hours	<b>24762</b>	24538	24246	23962
Oil Hours	<b>224</b>	292	284	330
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>	12.5	12.7	12.6
Base Number (BN)	mg KOH/g	<b>10.2</b>	10.1	9.8	10.0
Oxidation (PA)	%	<b>79</b>	82	84	82

### 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>	0.2	0.2	0.1
Nitration (PA)	%	<b>51</b>	52	50	51
Sulfation (PA)	%	<b>60</b>	61	62	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	4	4
Sodium	ppm	<b>1</b>	2	2	2
Potassium	ppm	<b>&lt;1</b>	0	<1	3



### WEAR METALS

Iron	ppm	<b>2</b>	2	2	4
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	0	1
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>2</b>	<1	<1	2
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>47</b>	39	41	38
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>1599</b>	1689	1769	1745
Magnesium	ppm	<b>481</b>	504	535	521
Zinc	ppm	<b>896</b>	872	976	952
Phosphorus	ppm	<b>734</b>	746	800	736
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>58</b>	56	63	58

**Depot:** SCHGRE  
**Unique No:** 10671647  
**Signed:** Wes Davis  
**Report Date:** 02 Oct 2023



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## GRAPHS

