



# CONSTRUCTION EQUIPMENT

## SPM595740 WM ELGIN VOLVO L150E 10242 - DIESEL ENGINE



**Sample No:** VCP413969  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM595740 WM ELGIN



### SAMPLE INFORMATION

Sample Number	<b>VCP413969</b>	VCP372562	VCP361036	VCP311338
Sample Date	<b>12 Sep 2023</b>	22 Aug 2022	26 Apr 2022	17 Jan 2022
Machine Hours	<b>21613</b>	21479	21307	21101
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.3	13.3	13.1
Base Number (BN)	mg KOH/g	<b>9.0</b>	10.1	10.6	9.9
Oxidation (PA)	%	<b>61</b>	70	64	75

### CONTAMINATION

Soot %	%	<b>0.2</b>	0.4	0.2	0.4
Nitration (PA)	%	<b>67</b>	80	66	87
Sulfation (PA)	%	<b>52</b>	61	57	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	<1	2	4
Sodium	ppm	<b>4</b>	0	1	2
Potassium	ppm	<b>&lt;1</b>	<1	0	1

### WEAR METALS

Iron	ppm	<b>4</b>	7	4	8
Copper	ppm	<b>8</b>	3	2	5
Lead	ppm	<b>&lt;1</b>	2	1	1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>&lt;1</b>	2	<1	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>62</b>	64	62	62
Nickel	ppm	<b>&lt;1</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1100</b>	1083	1205	1152
Magnesium	ppm	<b>1012</b>	943	1044	1033
Zinc	ppm	<b>1331</b>	1286	1324	1275
Phosphorus	ppm	<b>1135</b>	1101	1159	1142
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>4</b>	6	6	26

### 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.

**Depot:** VOLVO8885  
**Unique No:** 10658026  
**Signed:** Wes Davis  
**Report Date:** 21 Sep 2023



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## VOLVO GRAPHS

