



# CONSTRUCTION EQUIPMENT

## VOLVO L150 60742 - DIESEL ENGINE



**Sample No:** VCP312515  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP312515	VCP392520	VCP342850	VCP362758
Sample Date	29 Nov 2023	01 Aug 2023	13 Jun 2023	02 May 2023
Machine Hours	34546	34339	34189	33992
Oil Hours	207	150	197	248
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	12.8	12.8	12.5	12.5
Base Number (BN)	mg KOH/g	9.5	9.4	10.3	10.4
Oxidation (PA)	%	69	74	80	78



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.5	0.3
Nitration (PA)	%	54	53	53	54
Sulfation (PA)	%	57	58	62	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	4	5	5
Sodium	ppm	<1	3	3	3
Potassium	ppm	2	1	2	4



### WEAR METALS

Iron	ppm	9	6	8	6
Copper	ppm	2	2	2	<1
Lead	ppm	2	1	<1	2
Tin	ppm	1	<1	<1	1
Aluminum	ppm	4	<1	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	69	41	41	38
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1



### ADDITIVES

Calcium	ppm	1558	1799	1917	1827
Magnesium	ppm	535	512	527	529
Zinc	ppm	878	928	1011	964
Phosphorus	ppm	728	763	822	758
Barium	ppm	11	0	0	0
Boron	ppm	91	58	62	67

### 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 acceptable for the time in service.

**Depot:** SCHGRE  
**Unique No:** 10782826  
**Signed:** Don Baldrige  
**Report Date:** 15 Dec 2023



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## GRAPHS

