



# CONSTRUCTION EQUIPMENT

SPM645152-10 VOLVO L70H 624417 - DIESEL ENGINE



**Sample No:** VCP421017  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SPM645152-10



## SAMPLE INFORMATION

Sample Number	<b>VCP421017</b>	VCP424798	VCP341591	---
Sample Date	<b>07 Dec 2023</b>	02 Aug 2023	13 Dec 2021	---
Machine Hours	<b>3660</b>	3042	0	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>N/A</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.1	12.8	---
Base Number (BN)	mg KOH/g	<b>10.1</b>	9.2	10.2	---
Oxidation (PA)	%	<b>81</b>	82	77	---



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.3</b>	0.5	0.3	---
Nitration (PA)	%	<b>63</b>	69	63	---
Sulfation (PA)	%	<b>60</b>	61	61	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	6	16	---
Sodium	ppm	<b>4</b>	3	4	---
Potassium	ppm	<b>1</b>	1	2	---



## WEAR METALS

Iron	ppm	<b>10</b>	14	41	---
Copper	ppm	<b>&lt;1</b>	3	8	---
Lead	ppm	<b>0</b>	<1	2	---
Tin	ppm	<b>0</b>	<1	3	---
Aluminum	ppm	<b>5</b>	5	▲ 84	---
Chromium	ppm	<b>&lt;1</b>	2	13	---
Molybdenum	ppm	<b>65</b>	48	39	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	<1	<1	---
Manganese	ppm	<b>0</b>	<1	4	---
Vanadium	ppm	<b>0</b>	<1	0	---



## ADDITIVES

Calcium	ppm	<b>1687</b>	1771	1574	---
Magnesium	ppm	<b>537</b>	546	600	---
Zinc	ppm	<b>1152</b>	1143	1125	---
Phosphorus	ppm	<b>938</b>	927	976	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>35</b>	35	40	---

## 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:** VOLVO0090  
**Unique No:** 10780117  
**Signed:** Wes Davis  
**Report Date:** 12 Dec 2023



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## GRAPHS

