



# CONSTRUCTION EQUIPMENT

## SPM568168 VOLVO L110H 631686 - DIESEL ENGINE



**Sample No:** VCP422579  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SPM568168



### SAMPLE INFORMATION

Sample Number	<b>VCP422579</b>	VCP401602	VCP372305	---
Sample Date	<b>06 Jul 2023</b>	03 Feb 2023	14 Apr 2022	---
Machine Hours	<b>3075</b>	2551	1301	---
Oil Hours	<b>0</b>	0	500	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>15.3</b>	14.8	13.5	---
Base Number (BN)	mg KOH/g	<b>9.9</b>	10.2	9.4	---
Oxidation (PA)	%	<b>53</b>	56	90	---

### 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>0.1</b>	0.1	0.6	---
Nitration (PA)	%	<b>40</b>	40	88	---
Sulfation (PA)	%	<b>48</b>	50	66	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>4</b>	4	9	---
Sodium	ppm	<b>&lt;1</b>	<1	3	---
Potassium	ppm	<b>&lt;1</b>	1	0	---



### WEAR METALS

Iron	ppm	<b>2</b>	2	39	---
Copper	ppm	<b>0</b>	<1	17	---
Lead	ppm	<b>0</b>	0	1	---
Tin	ppm	<b>0</b>	0	2	---
Aluminum	ppm	<b>&lt;1</b>	3	▲ 31	---
Chromium	ppm	<b>0</b>	0	2	---
Molybdenum	ppm	<b>57</b>	58	33	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>&lt;1</b>	0	<1	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>0</b>	<1	1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1060</b>	1116	1585	---
Magnesium	ppm	<b>1022</b>	821	589	---
Zinc	ppm	<b>1257</b>	1169	1054	---
Phosphorus	ppm	<b>1029</b>	967	891	---
Barium	ppm	<b>0</b>	<1	0	---
Boron	ppm	<b>0</b>	8	46	---

**Depot:** VOLVO8885  
**Unique No:** 10573975  
**Signed:** Don Baldrige  
**Report Date:** 27 Jul 2023



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## GRAPHS

