



# CONSTRUCTION EQUIPMENT

## SPM595430 BULK EXP VOLVO L150H 6937 - DIESEL ENGINE



**Sample No:** VCP432660  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SPM595430 BULK EXP



### SAMPLE INFORMATION

Sample Number	<b>VCP432660</b>	VCP411670	VCP405341	VCP374733
Sample Date	<b>29 Aug 2023</b>	26 May 2023	21 Mar 2023	06 Jul 2022
Machine Hours	<b>6060</b>	5504	4909	3018
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	ABNORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.3</b>	▲ 12.4	▲ 12.2	■ 12.8
Base Number (BN)	mg KOH/g	<b>■ 10.3</b>	■ 9.3	■ 8.3	■ 9.1
Oxidation (PA)	%	<b>82</b>	81	61	63

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



### CONTAMINATION

Soot %	%	<b>■ 0.1</b>	■ 0.1	■ 0.2	■ 0.2
Nitration (PA)	%	<b>55</b>	58	60	64
Sulfation (PA)	%	<b>60</b>	61	54	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	■ 0.6	<1.0
Silicon	ppm	<b>■ 4</b>	■ 9	■ 15	▲ 32
Sodium	ppm	<b>■ 2</b>	■ <1	■ 2	■ 3
Potassium	ppm	<b>■ 0</b>	■ <1	■ 1	■ 0



### WEAR METALS

Iron	ppm	<b>■ 2</b>	■ 5	■ 8	■ 5
Copper	ppm	<b>■ &lt;1</b>	■ 1	■ 3	■ 6
Lead	ppm	<b>■ 0</b>	■ 0	■ <1	■ 1
Tin	ppm	<b>■ &lt;1</b>	■ 0	■ <1	■ 2
Aluminum	ppm	<b>■ 0</b>	■ 0	■ 2	■ 2
Chromium	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>■ 34</b>	■ 43	■ 54	■ 59
Nickel	ppm	<b>■ 0</b>	■ <1	■ <1	■ <1
Titanium	ppm	<b>0</b>	0	0	0
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>■ 1472</b>	■ 1620	■ 1005	■ 1108
Magnesium	ppm	<b>■ 423</b>	■ 557	■ 880	■ 943
Zinc	ppm	<b>■ 955</b>	■ 1130	■ 1149	■ 1193
Phosphorus	ppm	<b>■ 782</b>	■ 930	■ 974	■ 981
Barium	ppm	<b>■ 2</b>	■ 0	■ 2	■ 0
Boron	ppm	<b>■ 39</b>	■ 35	■ 3	■ 2

**Depot:** VOLVO0093  
**Unique No:** 10633975  
**Signed:** Sean Felton  
**Report Date:** 08 Sep 2023



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## GRAPHS

