



# CONSTRUCTION EQUIPMENT

## LKQ VOLVO L90H 626616 - DIESEL ENGINE



**Sample No:** VCP414749  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** LKQ



### SAMPLE INFORMATION

Sample Number	<b>VCP414749</b>	VCP424392	VCP400006	---
Sample Date	<b>07 Sep 2023</b>	06 Jun 2023	24 Mar 2023	---
Machine Hours	<b>1157</b>	1005	530	---
Oil Hours	<b>0</b>	500	530	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.4	13.4	---
Base Number (BN)	mg KOH/g	<b>9.9</b>	9.5	9.8	---
Oxidation (PA)	%	<b>87</b>	86	73	---

### 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>0.4</b>	0.4	0.4	---
Nitration (PA)	%	<b>79</b>	68	67	---
Sulfation (PA)	%	<b>62</b>	61	59	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>8</b>	7	15	---
Sodium	ppm	<b>4</b>	3	3	---
Potassium	ppm	<b>1</b>	0	1	---



### WEAR METALS

Iron	ppm	<b>21</b>	20	31	---
Copper	ppm	<b>2</b>	2	8	---
Lead	ppm	<b>&lt;1</b>	0	<1	---
Tin	ppm	<b>2</b>	2	4	---
Aluminum	ppm	<b>6</b>	3	15	---
Chromium	ppm	<b>1</b>	1	3	---
Molybdenum	ppm	<b>51</b>	48	47	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	4	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1960</b>	1653	1594	---
Magnesium	ppm	<b>634</b>	618	782	---
Zinc	ppm	<b>1325</b>	1173	1313	---
Phosphorus	ppm	<b>1060</b>	947	1056	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>17</b>	17	21	---

**Depot:** VOLVO0093  
**Unique No:** 10675073  
**Signed:** Wes Davis  
**Report Date:** 04 Oct 2023



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## GRAPHS

