



# CONSTRUCTION EQUIPMENT

## VOLVO L90H 624538 - DIESEL ENGINE



**Sample No:** VCP436521  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP436521</b>	ASC0006183	ASC0002845	VCP408433
Sample Date	<b>16 Apr 2024</b>	11 Jan 2024	31 Oct 2023	03 Aug 2023
Machine Hours	<b>10058</b>	9518	9091	8577
Oil Hours	<b>0</b>	427	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**IAA - INSURANCE AUTO AUCTIONS - CLAYTON**  
 60 SADISCO RD  
 CLAYTON, NC  
 US 27520  
 Contact: Service Manager



### OIL CONDITION

Visc @ 100°C	cSt	<b>14.4</b>	13.1	14.3	14.4
Base Number (BN)	mg KOH/g	<b>8.8</b>	10.4	5.0	8.4
Oxidation (PA)	%	<b>65</b>	81	94	56

T:  
F:

### 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.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.5</b>	0.4	1.6	0.6
Nitration (PA)	%	<b>68</b>	61	115	63
Sulfation (PA)	%	<b>54</b>	61	73	50
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	6	5	4
Sodium	ppm	<b>1</b>	2	<1	<1
Potassium	ppm	<b>1</b>	0	<1	1



### WEAR METALS

Iron	ppm	<b>11</b>	6	8	11
Copper	ppm	<b>1</b>	<1	<1	2
Lead	ppm	<b>1</b>	0	0	<1
Tin	ppm	<b>2</b>	<1	0	<1
Aluminum	ppm	<b>3</b>	3	2	3
Chromium	ppm	<b>2</b>	<1	<1	<1
Molybdenum	ppm	<b>59</b>	41	61	67
Nickel	ppm	<b>2</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>&lt;1</b>	0	0	<1
Manganese	ppm	<b>1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1197</b>	1541	1121	1174
Magnesium	ppm	<b>875</b>	558	1013	963
Zinc	ppm	<b>1226</b>	1124	1361	1269
Phosphorus	ppm	<b>1087</b>	887	955	1066
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>6</b>	31	0	2

**Depot:** INSCLA  
**Unique No:** 10982934  
**Signed:** Sean Felton  
**Report Date:** 22 Apr 2024



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## GRAPHS

