



# CONSTRUCTION EQUIPMENT

## IAA VOLVO L90G 617786 - DIESEL ENGINE



**Sample No:** VCP454850  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** IAA



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### SAMPLE INFORMATION

Sample Number	<b>VCP454850</b>	VCP326792	VCP293550	VCP276015
Sample Date	<b>07 May 2024</b>	08 Sep 2021	14 Dec 2020	13 May 2020
Machine Hours	<b>13070</b>	11322	10610	10137
Oil Hours	<b>0</b>	712	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	13.0	12.4	12.3
Base Number (BN)	mg KOH/g	<b>9.6</b>	---	---	---
Oxidation (PA)	%	<b>78</b>	72	82	80



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.4	0.4	0.4
Nitration (PA)	%	<b>60</b>	78	61	63
Sulfation (PA)	%	<b>59</b>	58	63	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	5	3	6
Sodium	ppm	<b>1</b>	3	2	4
Potassium	ppm	<b>1</b>	<1	<1	0



### WEAR METALS

Iron	ppm	<b>14</b>	9	8	8
Copper	ppm	<b>1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>9</b>	8	2	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>40</b>	29	38	38
Nickel	ppm	<b>&lt;1</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1562</b>	1547	1691	1742
Magnesium	ppm	<b>464</b>	571	484	579
Zinc	ppm	<b>1056</b>	1040	1063	1076
Phosphorus	ppm	<b>961</b>	877	965	913
Barium	ppm	<b>1</b>	0	0	0
Boron	ppm	<b>54</b>	36	35	37

### 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:** VOLVO0093  
**Unique No:** 1105708  
**Signed:** Wes Davis  
**Report Date:** 31 May 2024



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## VOLVO GRAPHS

