



# CONSTRUCTION EQUIPMENT

224998 IAA VOLVO L90H 624272 - DIESEL ENGINE



**Sample No:** VCP398567  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 224998 IAA



## SAMPLE INFORMATION

Sample Number	<b>VCP398567</b>	VCP300193	VCP282622	VCP236258
Sample Date	<b>10 Jul 2023</b>	12 Mar 2021	31 Aug 2020	02 Mar 2020
Machine Hours	<b>9497</b>	4977	4468	3994
Oil Hours	<b>600</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	13.8	14.4	13.7
Base Number (BN)	mg KOH/g	<b>10.6</b>	---	---	---
Oxidation (PA)	%	<b>86</b>	90	73	87



## CONTAMINATION

Soot %	%	<b>0.5</b>	0.6	0.5	0.6
Nitration (PA)	%	<b>67</b>	91	92	70
Sulfation (PA)	%	<b>63</b>	68	61	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>8</b>	7	6	8
Sodium	ppm	<b>2</b>	3	3	3
Potassium	ppm	<b>&lt;1</b>	0	3	2



## WEAR METALS

Iron	ppm	<b>10</b>	18	16	15
Copper	ppm	<b>2</b>	1	1	<1
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>3</b>	5	2	6
Chromium	ppm	<b>&lt;1</b>	1	<1	<1
Molybdenum	ppm	<b>42</b>	32	8	44
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	<1	<1	<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>1879</b>	1644	1427	1793
Magnesium	ppm	<b>593</b>	573	704	544
Zinc	ppm	<b>1249</b>	1018	831	903
Phosphorus	ppm	<b>1020</b>	888	712	818
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>34</b>	32	42	32

## 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:** VOLVO1271  
**Unique No:** 10559734  
**Signed:** Wes Davis  
**Report Date:** 16 Jul 2023



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## GRAPHS

