



# CONSTRUCTION EQUIPMENT

225482 IAA VOLVO L90H 624272 - DIESEL ENGINE



**Sample No:** VCP441944  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 225482 IAA



## SAMPLE INFORMATION

Sample Number	<b>VCP441944</b>	VCP398567	VCP300193	VCP282622
Sample Date	<b>06 Dec 2023</b>	10 Jul 2023	12 Mar 2021	31 Aug 2020
Machine Hours	<b>10017</b>	9497	4977	4468
Oil Hours	<b>0</b>	600	500	500
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**PACWEST MACHINERY**  
8207 SOUTH 216TH STREET  
KENT, WA  
US 98032  
Contact: CHRIS COPELAND  
ccopeland@pacwestmachinery.com  
T: (800)935-5933  
F: (509)534-5286



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	13.5	13.8	14.4
Base Number (BN)	mg KOH/g	<b>10.4</b>	10.6	---	---
Oxidation (PA)	%	<b>84</b>	86	90	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

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.5	0.6	0.5
Nitration (PA)	%	<b>65</b>	67	91	92
Sulfation (PA)	%	<b>62</b>	63	68	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>9</b>	8	7	6
Sodium	ppm	<b>2</b>	2	3	3
Potassium	ppm	<b>0</b>	<1	0	3



## WEAR METALS

Iron	ppm	<b>8</b>	10	18	16
Copper	ppm	<b>2</b>	2	1	1
Lead	ppm	<b>&lt;1</b>	<1	0	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>3</b>	3	5	2
Chromium	ppm	<b>&lt;1</b>	<1	1	<1
Molybdenum	ppm	<b>42</b>	42	32	8
Nickel	ppm	<b>&lt;1</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1734</b>	1879	1644	1427
Magnesium	ppm	<b>457</b>	593	573	704
Zinc	ppm	<b>1168</b>	1249	1018	831
Phosphorus	ppm	<b>950</b>	1020	888	712
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>32</b>	34	32	42

**Depot:** VOLVO1271  
**Unique No:** 10789533  
**Signed:** Wes Davis  
**Report Date:** 15 Dec 2023



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## VOLVO GRAPHS

