



# CONSTRUCTION EQUIPMENT

S50401814 VOLVO L90H 624526 - DIESEL ENGINE



**Sample No:** VCP441929  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** S50401814



## SAMPLE INFORMATION

Sample Number	<b>VCP441929</b>	VCP376602	VCP371248	VCP340708
Sample Date	<b>16 Oct 2023</b>	27 Mar 2023	29 Nov 2022	13 Dec 2021
Machine Hours	<b>9033</b>	8108	7602	5993
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



IAA - INSURANCE AUTO AUCTIONS - WESTCHESTER VC  
 2 WESTBROOK CORPORATE CENTER STE. 5  
 WESTCHESTER, IL  
 US 60154  
 Contact: BILLY BUTLER



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.4	13.7	13.4
Base Number (BN)	mg KOH/g	<b>10.3</b>	10.5	11.7	11
Oxidation (PA)	%	<b>84</b>	84	92	88

T: (404)275-6868  
 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 suitable for further service.



## CONTAMINATION

Soot %	%	<b>0.4</b>	0.6	0.6	0.6
Nitration (PA)	%	<b>59</b>	67	68	67
Sulfation (PA)	%	<b>62</b>	64	70	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	5	6
Sodium	ppm	<b>2</b>	2	2	3
Potassium	ppm	<b>1</b>	<1	0	0



## WEAR METALS

Iron	ppm	<b>4</b>	8	8	11
Copper	ppm	<b>0</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	0	<1	1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	5	3	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>38</b>	43	41	39
Nickel	ppm	<b>&lt;1</b>	<1	0	0
Titanium	ppm	<b>0</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>1596</b>	1859	1686	1733
Magnesium	ppm	<b>504</b>	569	535	534
Zinc	ppm	<b>1124</b>	1288	1232	1126
Phosphorus	ppm	<b>971</b>	1051	964	978
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>35</b>	42	31	35

**Depot:** INSWES  
**Unique No:** 10724520  
**Signed:** Wes Davis  
**Report Date:** 02 Nov 2023



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## GRAPHS

