



# CONSTRUCTION EQUIPMENT

## PRINCE VOLVO L90H 626620 - DIESEL ENGINE



**Sample No:** VCP432261  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** PRINCE



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### SAMPLE INFORMATION

Sample Number	<b>VCP432261</b>	VCP411963	VCP408275	VCP406512
Sample Date	<b>26 Dec 2023</b>	20 Sep 2023	30 Jun 2023	11 Apr 2023
Machine Hours	<b>2127</b>	1554	1057	514
Oil Hours	<b>0</b>	0	500	514
Oil Changed	<b>N/A</b>	N/A	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	12.7	13.0	12.8
Base Number (BN)	mg KOH/g	<b>10.5</b>	10.6	10.0	8.7
Oxidation (PA)	%	<b>76</b>	78	80	69



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.4	0.4	0.2
Nitration (PA)	%	<b>53</b>	63	68	53
Sulfation (PA)	%	<b>59</b>	59	61	54
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	9	11	20
Sodium	ppm	<b>2</b>	<1	3	4
Potassium	ppm	<b>0</b>	<1	0	<1



### WEAR METALS

Iron	ppm	<b>2</b>	11	18	23
Copper	ppm	<b>&lt;1</b>	0	2	8
Lead	ppm	<b>&lt;1</b>	1	0	0
Tin	ppm	<b>0</b>	1	1	2
Aluminum	ppm	<b>&lt;1</b>	3	4	22
Chromium	ppm	<b>0</b>	<1	2	4
Molybdenum	ppm	<b>38</b>	44	52	46
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	5
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1616</b>	1600	1765	1551
Magnesium	ppm	<b>509</b>	516	542	577
Zinc	ppm	<b>1149</b>	1134	1176	1168
Phosphorus	ppm	<b>879</b>	972	988	969
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>36</b>	30	69	110

### 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:** 10823685  
**Signed:** Wes Davis  
**Report Date:** 12 Jan 2024



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## GRAPHS

