



# CONSTRUCTION EQUIPMENT

PRINCE VOLVO L90H 626620 - DIESEL ENGINE



**Sample No:** VCP440087  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** PRINCE



## SAMPLE INFORMATION

Sample Number	<b>VCP440087</b>	VCP452446	VCP432261	VCP411963
Sample Date	<b>07 Jun 2024</b>	21 Mar 2024	26 Dec 2023	20 Sep 2023
Machine Hours	<b>3112</b>	2661	2127	1554
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	N/A	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	13.0	13.1	12.7
Base Number (BN)	mg KOH/g	<b>9.8</b>	9.9	10.5	10.6
Oxidation (PA)	%	<b>73</b>	78	76	78



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.2	0.2	0.4
Nitration (PA)	%	<b>55</b>	56	53	63
Sulfation (PA)	%	<b>58</b>	58	59	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	8	4	9
Sodium	ppm	<b>&lt;1</b>	2	2	<1
Potassium	ppm	<b>2</b>	0	0	<1



## WEAR METALS

Iron	ppm	<b>7</b>	7	2	11
Copper	ppm	<b>&lt;1</b>	<1	<1	0
Lead	ppm	<b>&lt;1</b>	0	<1	1
Tin	ppm	<b>&lt;1</b>	<1	0	1
Aluminum	ppm	<b>2</b>	2	<1	3
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>42</b>	42	38	44
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1500</b>	1652	1616	1600
Magnesium	ppm	<b>525</b>	522	509	516
Zinc	ppm	<b>1059</b>	1103	1149	1134
Phosphorus	ppm	<b>912</b>	967	879	972
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>35</b>	48	36	30

## 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 acceptable for the time in service.

**Depot:** VOLVO0093  
**Unique No:** 11075040  
**Signed:** Angela Borella  
**Report Date:** 14 Jun 2024



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## GRAPHS

