



# CONSTRUCTION EQUIPMENT

PRINCE VOLVO L90H 626547 - DIESEL ENGINE



**Sample No:** VCP443026  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** PRINCE



## SAMPLE INFORMATION

Sample Number	<b>VCP443026</b>	VCP452252	VCP429272	VCP422949
Sample Date	<b>07 Jun 2024</b>	31 Jan 2024	03 Oct 2023	01 Aug 2023
Machine Hours	<b>2696</b>	2176	1571	1131
Oil Hours	<b>0</b>	0	0	500
Oil Changed	<b>Changed</b>	N/A	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	12.8	12.7	13.0
Base Number (BN)	mg KOH/g	<b>10.1</b>	10.0	10.5	9.4
Oxidation (PA)	%	<b>78</b>	76	78	78

## Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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>0.2</b>	0.2	0.2	0.3
Nitration (PA)	%	<b>57</b>	56	55	60
Sulfation (PA)	%	<b>59</b>	59	58	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>1.3</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>10</b>	15	6	8
Sodium	ppm	<b>&lt;1</b>	0	2	3
Potassium	ppm	<b>2</b>	3	<1	2



## WEAR METALS

Iron	ppm	<b>10</b>	11	5	16
Copper	ppm	<b>1</b>	1	<1	2
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	0	<1	2
Aluminum	ppm	<b>3</b>	2	2	7
Chromium	ppm	<b>1</b>	1	<1	2
Molybdenum	ppm	<b>44</b>	46	42	43
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>	0	<1	1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1630</b>	1715	1527	1727
Magnesium	ppm	<b>486</b>	495	483	551
Zinc	ppm	<b>1103</b>	1171	1036	1212
Phosphorus	ppm	<b>978</b>	854	889	987
Barium	ppm	<b>0</b>	5	0	0
Boron	ppm	<b>56</b>	72	36	28

**Depot:** VOLVO0093  
**Unique No:** 11075038  
**Signed:** Wes Davis  
**Report Date:** 19 Jun 2024



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## GRAPHS

