



# CONSTRUCTION EQUIPMENT

619536 PRINCE VOLVO L90H 626545 - DIESEL ENGINE



**Sample No:** VCP417715  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 619536 PRINCE



## SAMPLE INFORMATION

Sample Number	<b>VCP417715</b>	VCP417705	VCP398517	---
Sample Date	<b>20 Oct 2023</b>	07 Jul 2023	10 Apr 2023	---
Machine Hours	<b>1583</b>	988	449	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---



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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	12.9	12.7	---
Base Number (BN)	mg KOH/g	<b>10.4</b>	10.3	8.6	---
Oxidation (PA)	%	<b>84</b>	83	70	---



## CONTAMINATION

Soot %	%	<b>0.2</b>	0.2	0.1	---
Nitration (PA)	%	<b>61</b>	60	50	---
Sulfation (PA)	%	<b>61</b>	62	54	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>13</b>	10	3	---
Sodium	ppm	<b>3</b>	2	4	---
Potassium	ppm	<b>0</b>	0	1	---



## WEAR METALS

Iron	ppm	<b>9</b>	10	21	---
Copper	ppm	<b>&lt;1</b>	2	2	---
Lead	ppm	<b>0</b>	0	2	---
Tin	ppm	<b>&lt;1</b>	1	<1	---
Aluminum	ppm	<b>2</b>	4	4	---
Chromium	ppm	<b>1</b>	1	<1	---
Molybdenum	ppm	<b>41</b>	40	68	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	1	---
Vanadium	ppm	<b>0</b>	<1	0	---



## ADDITIVES

Calcium	ppm	<b>1756</b>	1621	1193	---
Magnesium	ppm	<b>540</b>	494	898	---
Zinc	ppm	<b>1201</b>	1046	1237	---
Phosphorus	ppm	<b>864</b>	861	1030	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>32</b>	34	14	---

## 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:** VOLVO0096  
**Unique No:** 10711584  
**Signed:** Wes Davis  
**Report Date:** 26 Oct 2023



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## GRAPHS

