



# CONSTRUCTION EQUIPMENT

## 535079 VOLVO L90H 6245 18 - DIESEL ENGINE



**Sample No:** VCP446388  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 535079



### SAMPLE INFORMATION

Sample Number	<b>VCP446388</b>	VCP318558	VCP362216	---
Sample Date	<b>12 Apr 2024</b>	22 Sep 2023	11 Aug 2023	---
Machine Hours	<b>14537</b>	13591	12325	---
Oil Hours	<b>0</b>	13591	750	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**FORESTRY RESOURCES**  
 4353 MICHIGAN LINK  
 FORT MYERS, FL  
 US 33916  
 Contact: COREY MUELLER



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	12.6	12.9	---
Base Number (BN)	mg KOH/g	<b>10.2</b>	9.8	8.2	---
Oxidation (PA)	%	<b>85</b>	77	71	---

T: (239)872-1856  
 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

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.2</b>	0.2	0.2	---
Nitration (PA)	%	<b>62</b>	59	73	---
Sulfation (PA)	%	<b>62</b>	58	55	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>9</b>	7	14	---
Sodium	ppm	<b>2</b>	3	3	---
Potassium	ppm	<b>2</b>	2	2	---



### WEAR METALS

Iron	ppm	<b>13</b>	13	21	---
Copper	ppm	<b>2</b>	3	8	---
Lead	ppm	<b>1</b>	<1	<1	---
Tin	ppm	<b>2</b>	2	3	---
Aluminum	ppm	<b>4</b>	3	4	---
Chromium	ppm	<b>2</b>	<1	2	---
Molybdenum	ppm	<b>44</b>	59	55	---
Nickel	ppm	<b>2</b>	<1	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>&lt;1</b>	0	0	---
Manganese	ppm	<b>1</b>	<1	3	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1713</b>	1863	1796	---
Magnesium	ppm	<b>502</b>	581	483	---
Zinc	ppm	<b>1123</b>	1280	1238	---
Phosphorus	ppm	<b>1012</b>	1017	1010	---
Barium	ppm	<b>&lt;1</b>	0	<1	---
Boron	ppm	<b>38</b>	38	29	---

**Depot:** FORFORTFL  
**Unique No:** 10982792  
**Signed:** Wes Davis  
**Report Date:** 18 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

