



# CONSTRUCTION EQUIPMENT

50228 TMR VOLVO L90H 624974 - DIESEL ENGINE



**Sample No:** VCP266151  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 50228 TMR



## SAMPLE INFORMATION

Sample Number	<b>VCP266151</b>	VCP265182	VCP249436	---
Sample Date	<b>20 Mar 2020</b>	12 Dec 2019	04 Sep 2019	---
Machine Hours	<b>1612</b>	1056	545	---
Oil Hours	<b>250</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---



**ALTA EQUIPMENT COMPANY**  
5151 DR MARTIN LUTHER KING BLVD  
FORT MYERS, FL  
US 33905  
Contact: TODD LARK  
tlark@altaequipfl.com  
T:  
F: (239)481-3302



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.6</b>	13.7	13.0	---
Oxidation (PA)	%	<b>63</b>	61	77	---



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.4</b>	0.3	0.4	---
Nitration (PA)	%	<b>60</b>	58	53	---
Sulfation (PA)	%	<b>56</b>	54	59	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	5	8	---
Sodium	ppm	<b>3</b>	3	3	---
Potassium	ppm	<b>3</b>	0	0	---

## 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 condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	<b>10</b>	7	12	---
Copper	ppm	<b>&lt;1</b>	<1	1	---
Lead	ppm	<b>0</b>	<1	0	---
Tin	ppm	<b>7</b>	0	0	---
Aluminum	ppm	<b>3</b>	3	7	---
Chromium	ppm	<b>&lt;1</b>	<1	1	---
Molybdenum	ppm	<b>19</b>	17	33	---
Nickel	ppm	<b>1</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>1525</b>	1559	1525	---
Magnesium	ppm	<b>641</b>	672	466	---
Zinc	ppm	<b>872</b>	830	802	---
Phosphorus	ppm	<b>815</b>	685	686	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>63</b>	61	30	---

**Depot:** VOLVO0090  
**Unique No:** 8973500  
**Signed:** Wes Davis  
**Report Date:** 30 Mar 2020



# CONSTRUCTION EQUIPMENT



## GRAPHS

