



# CONSTRUCTION EQUIPMENT

67866 VOLVO L90H 624974 - DIESEL ENGINE



**Sample No:** VCP308628  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 67866



## SAMPLE INFORMATION

Sample Number	<b>VCP308628</b>	VCP305862	VCP295839	VCP289853
Sample Date	<b>21 Apr 2021</b>	17 Feb 2021	23 Dec 2020	29 Oct 2020
Machine Hours	<b>3763</b>	3381	3041	2720
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	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>13.5</b>	13.4	13.4	13.4
Oxidation (PA)	%	<b>82</b>	80	78	81



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.5</b>	0.4	0.4	0.3
Nitration (PA)	%	<b>58</b>	55	53	55
Sulfation (PA)	%	<b>65</b>	64	64	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	6	6	4
Sodium	ppm	<b>3</b>	2	3	<1
Potassium	ppm	<b>&lt;1</b>	0	4	<1

## 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>8</b>	8	7	6
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	3	0
Tin	ppm	<b>&lt;1</b>	0	1	<1
Aluminum	ppm	<b>1</b>	7	7	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>43</b>	42	40	38
Nickel	ppm	<b>&lt;1</b>	1	1	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1671</b>	1789	1748	1453
Magnesium	ppm	<b>504</b>	532	498	426
Zinc	ppm	<b>1056</b>	1096	1122	948
Phosphorus	ppm	<b>950</b>	953	936	839
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>45</b>	44	47	45

**Depot:** VOLVO0090  
**Unique No:** 9476396  
**Signed:** Wes Davis  
**Report Date:** 26 Apr 2021



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

