



# CONSTRUCTION EQUIPMENT

## 555072 MADOR CONT VOLVO L70H 622474 - DIESEL ENGINE



**Sample No:** VCP414279  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 555072 MADOR CONT



### SAMPLE INFORMATION

Sample Number	<b>VCP414279</b>	VCP397018	VCP332900	VCP335682
Sample Date	<b>20 Jun 2023</b>	30 Nov 2022	29 Mar 2022	23 Sep 2021
Machine Hours	<b>9127</b>	8495	7530	6792
Oil Hours	<b>500</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT COMPANY - METRO WEST**  
 56195 PONTIAC TRAIL  
 NEW HUDSON, MI  
 US 48165  
 Contact: PAUL CONZ  
 paul.conz@altg.com  
 T: (313)348-8861  
 F: (248)356-2029

### OIL CONDITION

Visc @ 100°C	cSt	<b>14.0</b>	13.6	14.1	13.2
Base Number (BN)	mg KOH/g	<b>8.3</b>	8.2	9.2	---
Oxidation (PA)	%	<b>76</b>	81	77	83

### CONTAMINATION

Soot %	%	<b>0.6</b>	0.6	0.4	0.4
Nitration (PA)	%	<b>88</b>	102	94	72
Sulfation (PA)	%	<b>59</b>	63	60	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>	9	3	5
Sodium	ppm	<b>1</b>	1	1	2
Potassium	ppm	<b>2</b>	9	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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	<b>14</b>	48	11	8
Copper	ppm	<b>2</b>	9	2	<1
Lead	ppm	<b>0</b>	4	<1	<1
Tin	ppm	<b>&lt;1</b>	3	<1	<1
Aluminum	ppm	<b>3</b>	6	5	4
Chromium	ppm	<b>&lt;1</b>	1	1	<1
Molybdenum	ppm	<b>62</b>	62	58	41
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	<1	<1	<1
Manganese	ppm	<b>&lt;1</b>	1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	0

### ADDITIVES

Calcium	ppm	<b>1248</b>	1258	1283	1754
Magnesium	ppm	<b>1001</b>	1043	896	470
Zinc	ppm	<b>1381</b>	1365	1219	1138
Phosphorus	ppm	<b>1081</b>	995	1054	911
Barium	ppm	<b>14</b>	0	0	0
Boron	ppm	<b>0</b>	2	8	40

**Depot:** VOLVO2990  
**Unique No:** 10538102  
**Signed:** Don Baldrige  
**Report Date:** 04 Jul 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

