



# CONSTRUCTION EQUIPMENT

MLF-MAR14-019 VOLVO L90G 617536 - DIESEL ENGINE



**Sample No:** VCP448145  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** MLF-MAR14-019



## SAMPLE INFORMATION

Sample Number	<b>VCP448145</b>	VCP352522	VCP334329	VCP299074
Sample Date	<b>21 Mar 2024</b>	07 Oct 2022	19 Nov 2021	05 Jun 2021
Machine Hours	<b>15532</b>	13778	12592	11872
Oil Hours	<b>0</b>	0	0	500
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### STRONGCO EQUIPMENT (CE)

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	12.2	12.0	12.2
Oxidation (PA)	%	<b>84</b>	82	85	84



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.5	0.3	0.2
Nitration (PA)	%	<b>62</b>	65	62	59
Sulfation (PA)	%	<b>63</b>	65	67	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	5	6	6
Sodium	ppm	<b>8</b>	4	3	3
Potassium	ppm	<b>&lt;1</b>	<1	<1	<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>16</b>	11	9	10
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>6</b>	6	4	6
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>41</b>	39	40	38
Nickel	ppm	<b>&lt;1</b>	0	<1	<1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1680</b>	1644	1643	1610
Magnesium	ppm	<b>517</b>	473	524	483
Zinc	ppm	<b>1057</b>	1031	1104	1097
Phosphorus	ppm	<b>898</b>	944	970	892
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>31</b>	31	33	44

**Depot:** VOLVO0252  
**Unique No:** 5750014  
**Signed:** Wes Davis  
**Report Date:** 27 Mar 2024



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## GRAPHS

