



# CONSTRUCTION EQUIPMENT

## LKQ MLF-MAR14-018 VOLVO L70G 614241 - DIESEL ENGINE



**Sample No:** VCP450470  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** MLF-MAR14-018



### SAMPLE INFORMATION

Sample Number	<b>VCP450470</b>	VCP430183	VCP353446	VCP380849
Sample Date	<b>21 Mar 2024</b>	10 Jan 2024	15 Mar 2023	28 Dec 2022
Machine Hours	<b>16840</b>	16437	15011	14599
Oil Hours	<b>1000</b>	2000	500	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### STRONGCO EQUIPMENT (CE)

1051 Heritage Rd.  
 Burlington, ON  
 CA L7L 4Y1  
 Contact: Sue Hooton  
 shooton@strongco.com  
 T: (905)331-3835  
 F: (905)643-6077

### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	12.6	13.7	13.0
Oxidation (PA)	%	<b>80</b>	85	57	87

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0</b>	0.1	0	0.1
Nitration (PA)	%	<b>53</b>	63	71	67
Sulfation (PA)	%	<b>61</b>	62	62	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	1.2	<1.0	<1.0
Silicon	ppm	<b>4</b>	5	5	6
Sodium	ppm	<b>2</b>	2	3	2
Potassium	ppm	<b>0</b>	<1	2	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>6</b>	9	10	12
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>4</b>	5	7	7
Chromium	ppm	<b>0</b>	<1	0	<1
Molybdenum	ppm	<b>38</b>	39	9	42
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	0	2	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1693</b>	1689	1548	1776
Magnesium	ppm	<b>505</b>	503	710	502
Zinc	ppm	<b>1063</b>	1049	1219	1092
Phosphorus	ppm	<b>908</b>	936	1144	1024
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>43</b>	28	65	29

**Depot:** VOLVO0252  
**Unique No:** 5750015  
**Signed:** Wes Davis  
**Report Date:** 27 Mar 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

