



# CONSTRUCTION EQUIPMENT

W02007179 VOLVO L70H 624465 - DIESEL ENGINE



**Sample No:** VCP419398  
**Oil Type:** MOBIL 15W40  
**Job No:** W02007179



## SAMPLE INFORMATION

Sample Number	<b>VCP419398</b>	VCP397795	VCP319174	VCP338921
Sample Date	<b>28 Jun 2023</b>	14 Feb 2023	27 Jul 2022	11 Dec 2021
Machine Hours	<b>2154</b>	1539	1004	533
Oil Hours	<b>500</b>	500	500	533
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	ATTENTION

**MCCLUNG-LOGAN EQUIPMENT CO INC**  
8450 QUARRY ROAD  
MANASSAS, VA  
US 20110  
Contact: MIKE MAYHUGH  
MMAYHUGH@MCCLUNG-LOGAN.COM  
T: (703)393-7344  
F: (703)393-7844



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.0	12.2	12.3
Base Number (BN)	mg KOH/g	<b>9.0</b>	9.4	11.0	10.9
Oxidation (PA)	%	<b>65</b>	63	82	76



## CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>63</b>	56	63	54
Sulfation (PA)	%	<b>61</b>	53	63	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.0
Silicon	ppm	<b>8</b>	6	8	12
Sodium	ppm	<b>&lt;1</b>	1	1	4
Potassium	ppm	<b>2</b>	1	1	<1



## WEAR METALS

Iron	ppm	<b>8</b>	9	4	21
Copper	ppm	<b>1</b>	1	2	9
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	1	<1	2
Aluminum	ppm	<b>5</b>	2	5	20
Chromium	ppm	<b>1</b>	1	1	4
Molybdenum	ppm	<b>111</b>	57	43	40
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	4
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1551</b>	1255	1719	1675
Magnesium	ppm	<b>716</b>	788	449	589
Zinc	ppm	<b>953</b>	1178	1048	1090
Phosphorus	ppm	<b>774</b>	994	875	987
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>318</b>	21	74	58

## 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.

**Depot:** VOLVO0002  
**Unique No:** 10548399  
**Signed:** Don Baldrige  
**Report Date:** 10 Jul 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

