



# CONSTRUCTION EQUIPMENT

## W02007613 VOLVO L70H 624420 - DIESEL ENGINE



**Sample No:** VCP418327  
**Oil Type:** MOBIL 15W40  
**Job No:** W02007613



### SAMPLE INFORMATION

Sample Number	<b>VCP418327</b>	VCP397808	VCP390526	VCP350617
Sample Date	<b>02 Oct 2023</b>	15 Mar 2023	04 Nov 2022	21 Jun 2022
Machine Hours	<b>3009</b>	2500	2016	1553
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.4</b>	13.0	12.8	12.5
Base Number (BN)	mg KOH/g	<b>7.9</b>	9.0	10.5	10.1
Oxidation (PA)	%	<b>62</b>	63	79	82

### CONTAMINATION

Soot %	%	<b>0.1</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>56</b>	57	67	62
Sulfation (PA)	%	<b>59</b>	61	62	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	7	6	7
Sodium	ppm	<b>2</b>	2	1	1
Potassium	ppm	<b>0</b>	0	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 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>7</b>	8	15	15
Copper	ppm	<b>&lt;1</b>	<1	1	8
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	<1	1	2
Aluminum	ppm	<b>5</b>	4	3	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>119</b>	120	50	51
Nickel	ppm	<b>&lt;1</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1479</b>	1624	1530	1699
Magnesium	ppm	<b>616</b>	619	587	498
Zinc	ppm	<b>788</b>	877	1131	1065
Phosphorus	ppm	<b>669</b>	711	944	867
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>300</b>	271	30	55

**Depot:** VOLVO0002  
**Unique No:** 10696517  
**Signed:** Don Baldrige  
**Report Date:** 17 Oct 2023



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## VOLVO GRAPHS

