



# CONSTRUCTION EQUIPMENT

## 11738 VOLVO L70H 622154 - DIESEL ENGINE



**Sample No:** VCP428734  
**Oil Type:** MOBIL 15W40  
**Job No:** 11738



### SAMPLE INFORMATION

Sample Number	VCP428734	VCP378615	VCP319865	VCP287268
Sample Date	03 Jan 2024	09 Sep 2022	27 Aug 2021	05 Nov 2020
Machine Hours	3825	3290	2700	2160
Oil Hours	0	500	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



**K C CONSTRUCTION**  
 1737 STOUT DRIVE  
 IVYLAND, PA  
 US 18974  
 Contact: DUKE D.  
 duked@kcconstruct.com  
 T: (267)784-7337  
 F: x:



### OIL CONDITION

Visc @ 100°C	cSt	13.1	12.5	12.8	13.6
Base Number (BN)	mg KOH/g	8.0	11.0	---	---
Oxidation (PA)	%	59	79	72	69



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.3	0.4
Nitration (PA)	%	66	70	63	76
Sulfation (PA)	%	51	61	56	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	6	6
Sodium	ppm	0	4	2	5
Potassium	ppm	2	4	0	2



### WEAR METALS

Iron	ppm	10	15	14	20
Copper	ppm	2	2	2	2
Lead	ppm	0	1	<1	0
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	10	12	10	8
Chromium	ppm	<1	1	1	1
Molybdenum	ppm	33	42	45	24
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0



### ADDITIVES

Calcium	ppm	1483	1501	1657	1505
Magnesium	ppm	411	469	520	572
Zinc	ppm	1010	1022	1117	866
Phosphorus	ppm	1005	806	939	771
Barium	ppm	0	0	0	0
Boron	ppm	56	62	42	46

### 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:** KCCIVY  
**Unique No:** 10821654  
**Signed:** Wes Davis  
**Report Date:** 10 Jan 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

