



# CONSTRUCTION EQUIPMENT

A11686 BUCKLEY VOLVO L60H 621942 - DIESEL ENGINE



**Sample No:** VCP429676  
**Oil Type:** MOBIL 15W40  
**Job No:** A11686 BUCKLEY



## SAMPLE INFORMATION

Sample Number	<b>VCP429676</b>	VCP440553	VCP422788	VCP399119
Sample Date	<b>14 Dec 2023</b>	18 Sep 2023	17 May 2023	19 Jan 2023
Machine Hours	<b>4010</b>	3630	2980	2482
Oil Hours	<b>500</b>	0	500	0
Oil Changed	<b>Changed</b>	N/A	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**HOFFMAN EQUIPMENT - LIONVILLE**  
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LIONVILLE, PA  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.9</b>	13.5	13.3	13.6
Base Number (BN)	mg KOH/g	<b>8.8</b>	7.0	10.4	9.0
Oxidation (PA)	%	<b>64</b>	53	83	59

## 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 acceptable for the time in service.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0	0.2	0.2
Nitration (PA)	%	<b>68</b>	71	61	63
Sulfation (PA)	%	<b>55</b>	59	61	51
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	4	6	5
Sodium	ppm	<b>3</b>	5	3	0
Potassium	ppm	<b>1</b>	2	2	<1



## WEAR METALS

Iron	ppm	<b>7</b>	14	10	11
Copper	ppm	<b>1</b>	5	1	1
Lead	ppm	<b>0</b>	<1	0	1
Tin	ppm	<b>1</b>	1	<1	1
Aluminum	ppm	<b>2</b>	0	0	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>43</b>	15	42	46
Nickel	ppm	<b>&lt;1</b>	0	<1	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1



## ADDITIVES

Calcium	ppm	<b>1522</b>	2243	1862	1689
Magnesium	ppm	<b>481</b>	163	555	680
Zinc	ppm	<b>1196</b>	1121	1237	1310
Phosphorus	ppm	<b>1005</b>	928	975	1042
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>31</b>	8	46	15

**Depot:** VOLVO8879  
**Unique No:** 10795632  
**Signed:** Don Baldrige  
**Report Date:** 21 Dec 2023



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## VOLVO GRAPHS

