



# CONSTRUCTION EQUIPMENT

674765 LAKE CONWAY VOLVO L30G 3224500 - DIESEL ENGINE



**Sample No:** VCP440771  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 674765 LAKE CONWAY



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: KENNY HANEY  
 khaney@flaglerce.com  
 T: (813)630-0077  
 F: (813)630-2233



## SAMPLE INFORMATION

Sample Number	<b>VCP440771</b>	VCP368645	VCP359943	VCP342229
Sample Date	<b>16 Feb 2024</b>	21 Oct 2022	03 May 2022	28 Oct 2021
Machine Hours	<b>2584</b>	1115	1115	555
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL



## OIL CONDITION

Visc @ 100°C	cSt	<b>14.0</b>	13.6	13.7	▲ 11.5
Base Number (BN)	mg KOH/g	<b>7.4</b>	10.6	10.2	---
Oxidation (PA)	%	<b>110</b>	98	98	94



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>108</b>	87	82	83
Sulfation (PA)	%	<b>67</b>	67	69	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.0
Silicon	ppm	<b>6</b>	7	8	18
Sodium	ppm	<b>2</b>	3	4	<1
Potassium	ppm	<b>0</b>	1	4	2



## WEAR METALS

Iron	ppm	<b>6</b>	7	9	17
Copper	ppm	<b>1</b>	4	23	▲ 126
Lead	ppm	<b>0</b>	0	2	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>1</b>	1	2	<1
Chromium	ppm	<b>&lt;1</b>	1	1	2
Molybdenum	ppm	<b>43</b>	42	38	43
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	1	4
Vanadium	ppm	<b>0</b>	0	<1	0



## ADDITIVES

Calcium	ppm	<b>1769</b>	1720	1871	2043
Magnesium	ppm	<b>575</b>	504	511	461
Zinc	ppm	<b>1197</b>	1138	1148	1074
Phosphorus	ppm	<b>937</b>	920	950	937
Barium	ppm	<b>0</b>	0	0	4
Boron	ppm	<b>28</b>	28	52	36

## 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:** VOLVO0093  
**Unique No:** 10888093  
**Signed:** Sean Felton  
**Report Date:** 23 Feb 2024



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## GRAPHS

