



# CONSTRUCTION EQUIPMENT

## 620596 CITRUS CO LF VOLVO L110H 632392 - DIESEL ENGINE



**Sample No:** VCP441858  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 620596 CITRUS CO LF



### SAMPLE INFORMATION

Sample Number	<b>VCP441858</b>	VCP425883	VCP406812	VCP395738
Sample Date	<b>18 Oct 2023</b>	26 Jul 2023	01 May 2023	02 Feb 2023
Machine Hours	<b>2613</b>	2132	1543	1058
Oil Hours	<b>500</b>	500	0	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>12.6</b>	13.0	12.7	12.8
Base Number (BN)	mg KOH/g	<b>10.5</b>	9.8	10.4	10.2
Oxidation (PA)	%	<b>76</b>	77	78	79

### 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.



### CONTAMINATION

Soot %	%	<b>0.4</b>	0.4	0.3	0.3
Nitration (PA)	%	<b>54</b>	57	57	57
Sulfation (PA)	%	<b>59</b>	59	61	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	5	6
Sodium	ppm	<b>1</b>	2	0	<1
Potassium	ppm	<b>2</b>	2	2	2



### WEAR METALS

Iron	ppm	<b>9</b>	12	12	15
Copper	ppm	<b>2</b>	3	3	5
Lead	ppm	<b>0</b>	1	<1	<1
Tin	ppm	<b>&lt;1</b>	2	<1	1
Aluminum	ppm	<b>4</b>	6	3	9
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>45</b>	43	48	41
Nickel	ppm	<b>0</b>	<1	<1	1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	<1	0	<1
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1570</b>	1692	1641	1475
Magnesium	ppm	<b>475</b>	527	472	451
Zinc	ppm	<b>1082</b>	1183	1079	1004
Phosphorus	ppm	<b>907</b>	963	899	827
Barium	ppm	<b>7</b>	0	0	0
Boron	ppm	<b>40</b>	32	42	39

**Depot:** VOLVO0093  
**Unique No:** 10737800  
**Signed:** Wes Davis  
**Report Date:** 10 Nov 2023



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## GRAPHS

