



# CONSTRUCTION EQUIPMENT

## SPM595236 VOLVO L110H 631377 - DIESEL ENGINE



**Sample No:** VCP412217  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SPM595236



### SAMPLE INFORMATION

Sample Number	<b>VCP412217</b>	VCP425726	VCP398540	VCP380649
Sample Date	<b>24 Aug 2023</b>	08 May 2023	07 Feb 2023	03 Nov 2022
Machine Hours	<b>7531</b>	7017	6534	6014
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**BLUE GOOSE GROWERS**  
 16059 W ORANGE AVE  
 FT PIERCE, FL  
 US 34945  
 Contact: SERVICE MANAGER



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	12.7	13.4	13.4
Base Number (BN)	mg KOH/g	<b>10.4</b>	10.3	10.1	11.5
Oxidation (PA)	%	<b>82</b>	77	82	88

T: (772)461-3020  
 F:

### 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>0.3</b>	0.3	0.2	0.4
Nitration (PA)	%	<b>64</b>	61	61	75
Sulfation (PA)	%	<b>61</b>	60	61	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	6	4	4
Sodium	ppm	<b>2</b>	2	2	<1
Potassium	ppm	<b>&lt;1</b>	1	0	1



### WEAR METALS

Iron	ppm	<b>10</b>	11	8	16
Copper	ppm	<b>&lt;1</b>	0	<1	1
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	1	<1	<1
Aluminum	ppm	<b>6</b>	10	2	8
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>44</b>	51	42	47
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1752</b>	1699	1663	1747
Magnesium	ppm	<b>566</b>	711	517	472
Zinc	ppm	<b>1154</b>	1385	1133	1135
Phosphorus	ppm	<b>969</b>	1071	881	943
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>32</b>	26	41	27

**Depot:** BLUFOR  
**Unique No:** 10633976  
**Signed:** Wes Davis  
**Report Date:** 07 Sep 2023



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## GRAPHS

