



# CONSTRUCTION EQUIPMENT

## 580298 VOLVO L220H 3368 - DIESEL ENGINE



**Sample No:** VCP415547  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 580298



### SAMPLE INFORMATION

Sample Number	<b>VCP415547</b>	VCP369990	VCP378755	VCP360955
Sample Date	<b>18 Jul 2023</b>	13 Oct 2022	01 Aug 2022	10 May 2022
Machine Hours	<b>3780</b>	2139	1673	1160
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL

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

### OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	13.2	13.4	13.0
Base Number (BN)	mg KOH/g	<b>9.2</b>	11.3	11.2	8.4
Oxidation (PA)	%	<b>81</b>	89	88	82

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>	0.2	0.2	0.2
Nitration (PA)	%	<b>68</b>	69	67	68
Sulfation (PA)	%	<b>61</b>	66	66	63
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>3</b>	2	4	4
Potassium	ppm	<b>0</b>	0	2	2

### WEAR METALS

Iron	ppm	<b>6</b>	4	5	7
Copper	ppm	<b>1</b>	2	7	▲ 39
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	2	2
Aluminum	ppm	<b>&lt;1</b>	<1	<1	1
Chromium	ppm	<b>0</b>	2	0	<1
Molybdenum	ppm	<b>46</b>	42	42	42
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	<1	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	<1	0

### ADDITIVES

Calcium	ppm	<b>1785</b>	1652	1625	1756
Magnesium	ppm	<b>580</b>	530	481	477
Zinc	ppm	<b>1171</b>	1129	1057	1175
Phosphorus	ppm	<b>983</b>	892	850	949
Barium	ppm	<b>0</b>	0	<1	0
Boron	ppm	<b>26</b>	23	38	26

**Depot:** BLUFOR  
**Unique No:** 10565419  
**Signed:** Wes Davis  
**Report Date:** 25 Jul 2023



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## GRAPHS

