



# CONSTRUCTION EQUIPMENT

## 717593 GENERAL RV VOLVO L20H 1220370 - DIESEL ENGINE



**Sample No:** VCP451166  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 717593 GENERAL RV



### SAMPLE INFORMATION

Sample Number	<b>VCP451166</b>	VCP432460	VCP423509	VCP398977
Sample Date	<b>03 Jun 2024</b>	31 Oct 2023	31 Mar 2023	22 Dec 2022
Machine Hours	<b>4852</b>	3907	2832	2297
Oil Hours	<b>500</b>	0	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: JOHN FARDELLA  
 john.fardella@altg.com  
 T: (813)630-0077  
 F: (813)630-2233



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	12.6	13.0	13.1
Base Number (BN)	mg KOH/g	<b>10.0</b>	9.8	10.1	10.0
Oxidation (PA)	%	<b>73</b>	80	83	80

### 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

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0</b>	0	0.1	0.1
Nitration (PA)	%	<b>63</b>	60	61	64
Sulfation (PA)	%	<b>56</b>	58	61	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	5	5	6
Sodium	ppm	<b>3</b>	<1	2	4
Potassium	ppm	<b>&lt;1</b>	1	1	<1



### WEAR METALS

Iron	ppm	<b>4</b>	3	4	4
Copper	ppm	<b>3</b>	0	<1	<1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>&lt;1</b>	1	1	<1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>43</b>	45	48	43
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1651</b>	1629	1744	1707
Magnesium	ppm	<b>606</b>	476	563	518
Zinc	ppm	<b>1107</b>	1049	1243	1121
Phosphorus	ppm	<b>984</b>	838	981	914
Barium	ppm	<b>0</b>	2	0	0
Boron	ppm	<b>40</b>	44	48	46

**Depot:** VOLVO0093  
**Unique No:** 11126326  
**Signed:** Wes Davis  
**Report Date:** 17 Jul 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

