



# CONSTRUCTION EQUIPMENT

## 689483 GENERAL RV VOLVO L20H 1220369 - DIESEL ENGINE



**Sample No:** VCP340002  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 689483 GENERAL RV



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



### SAMPLE INFORMATION

Sample Number	<b>VCP340002</b>	VCP411068	VCP354539	VCP351711
Sample Date	<b>04 Apr 2024</b>	20 Apr 2023	19 Aug 2022	21 Feb 2022
Machine Hours	<b>2505</b>	1521	1022	508
Oil Hours	<b>500</b>	499	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.3	13.1	11.2
Base Number (BN)	mg KOH/g	<b>9.7</b>	8.8	10.8	10.7
Oxidation (PA)	%	<b>84</b>	81	91	89



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>73</b>	66	72	75
Sulfation (PA)	%	<b>59</b>	56	67	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.0
Silicon	ppm	<b>6</b>	5	8	15
Sodium	ppm	<b>3</b>	2	2	3
Potassium	ppm	<b>0</b>	0	0	0



### WEAR METALS

Iron	ppm	<b>4</b>	3	6	13
Copper	ppm	<b>2</b>	<1	2	9
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>2</b>	<1	<1	3
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>44</b>	31	39	35
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	2
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1843</b>	1334	1636	1802
Magnesium	ppm	<b>563</b>	402	495	444
Zinc	ppm	<b>1212</b>	811	1049	994
Phosphorus	ppm	<b>1054</b>	676	858	865
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>44</b>	33	36	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:** 11018402  
**Signed:** Wes Davis  
**Report Date:** 09 May 2024



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## GRAPHS

