



# CONSTRUCTION EQUIPMENT

438237 VOLVO L120H 632356 - DIESEL ENGINE



**Sample No:** VCP432222  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 438237



## SAMPLE INFORMATION

Sample Number	<b>VCP432222</b>	VCP354538	VCP244349	---
Sample Date	<b>11 Jan 2024</b>	12 Aug 2022	10 Aug 2019	---
Machine Hours	<b>10492</b>	8194	3101	---
Oil Hours	<b>500</b>	0	1000	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**RECYCLE AMERICA**  
 12100 YOUNG PINE RD  
 ORLANDO, FL  
 US 32829  
 Contact: SERVICE MANAGER

## OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	13.0	14.1	---
Base Number (BN)	mg KOH/g	<b>10.0</b>	10.6	---	---
Oxidation (PA)	%	<b>73</b>	92	96	---

T:  
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

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.2</b>	0.9	0.8	---
Nitration (PA)	%	<b>55</b>	91	93	---
Sulfation (PA)	%	<b>57</b>	70	65	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>5</b>	7	15	---
Sodium	ppm	<b>2</b>	2	5	---
Potassium	ppm	<b>0</b>	1	3	---

## WEAR METALS

Iron	ppm	<b>13</b>	18	31	---
Copper	ppm	<b>&lt;1</b>	4	14	---
Lead	ppm	<b>0</b>	1	3	---
Tin	ppm	<b>0</b>	<1	4	---
Aluminum	ppm	<b>2</b>	8	22	---
Chromium	ppm	<b>&lt;1</b>	1	2	---
Molybdenum	ppm	<b>47</b>	47	43	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>1600</b>	1593	1565	---
Magnesium	ppm	<b>647</b>	498	574	---
Zinc	ppm	<b>1247</b>	1088	908	---
Phosphorus	ppm	<b>1051</b>	906	733	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>29</b>	21	10	---

**Depot:** RECORL  
**Unique No:** 10832037  
**Signed:** Wes Davis  
**Report Date:** 16 Jan 2024



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## GRAPHS

