



# CONSTRUCTION EQUIPMENT

SWA348485 VOLVO L120H 632529 - DIESEL ENGINE



**Sample No:** VCP421353  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWA348485



## SAMPLE INFORMATION

Sample Number	<b>VCP421353</b>	VCP365153	VCP298928	VCP259005
Sample Date	<b>07 Sep 2023</b>	08 Jun 2023	17 Mar 2021	02 Jan 2020
Machine Hours	<b>16483</b>	15919	8400	3124
Oil Hours	<b>0</b>	0	986	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	ATTENTION	NORMAL	ATTENTION

### FORESTRY RESOURCES

4353 MICHIGAN LINK  
 FORT MYERS, FL  
 US 33916  
 Contact: COREY MUELLER



## OIL CONDITION

Visc @ 100°C	cSt	<b>14.2</b>	18.4	14.0	9.4
Base Number (BN)	mg KOH/g	<b>9.3</b>	6.9	---	---
Oxidation (PA)	%	<b>86</b>	173	69	58

T: (239)872-1856  
 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	%	---	---	---	0.115
Soot %	%	<b>0.5</b>	1.5	0.8	0.6
Nitration (PA)	%	<b>91</b>	157	86	78
Sulfation (PA)	%	<b>63</b>	107	63	55
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.3
Silicon	ppm	<b>7</b>	15	6	5
Sodium	ppm	<b>4</b>	5	2	2
Potassium	ppm	<b>3</b>	1	<1	0



## WEAR METALS

Iron	ppm	<b>24</b>	79	23	21
Copper	ppm	<b>3</b>	6	2	3
Lead	ppm	<b>3</b>	13	2	<1
Tin	ppm	<b>1</b>	4	1	1
Aluminum	ppm	<b>7</b>	12	10	6
Chromium	ppm	<b>&lt;1</b>	2	1	1
Molybdenum	ppm	<b>71</b>	87	90	77
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>&lt;1</b>	1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



## ADDITIVES

Calcium	ppm	<b>1990</b>	2374	2024	1544
Magnesium	ppm	<b>642</b>	915	373	632
Zinc	ppm	<b>1374</b>	1682	1299	1074
Phosphorus	ppm	<b>1073</b>	1375	1126	888
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>25</b>	9	18	7

**Depot:** FORFOTFL  
**Unique No:** 10649640  
**Signed:** Wes Davis  
**Report Date:** 20 Sep 2023



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## GRAPHS

