



# CONSTRUCTION EQUIPMENT

SWA344990 COASTAL WA VOLVO L120H 632589 - DIESEL ENGINE



**Sample No:** VCP427149  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWA344990 COASTAL WA



## SAMPLE INFORMATION

Sample Number	<b>VCP427149</b>	VCP382583	VCP393585	VCP406355
Sample Date	<b>31 Aug 2023</b>	30 Jun 2023	02 May 2023	13 Jan 2023
Machine Hours	<b>10016</b>	5900	9013	8129
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL



**ALTA EQUIPMENT COMPANY**  
5210 REESE ROAD  
DAVIE, FL  
US 33314  
Contact: N. FACEY  
nfacey@altaequipfl.com  
T: (954)581-4744  
F: (954)583-0318



## OIL CONDITION

Visc @ 100°C	cSt	<b>14.7</b>	13.5	13.3	13.7
Base Number (BN)	mg KOH/g	<b>9.1</b>	10.9	10.3	6.2
Oxidation (PA)	%	<b>57</b>	76	77	73



## CONTAMINATION

Soot %	%	<b>0.7</b>	0.2	0.4	0.8
Nitration (PA)	%	<b>66</b>	49	61	79
Sulfation (PA)	%	<b>54</b>	60	61	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	4	6	9
Sodium	ppm	<b>2</b>	1	2	2
Potassium	ppm	<b>2</b>	1	2	3



## WEAR METALS

Iron	ppm	<b>11</b>	4	10	37
Copper	ppm	<b>1</b>	<1	0	3
Lead	ppm	<b>0</b>	0	0	4
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>10</b>	4	12	▲ 32
Chromium	ppm	<b>&lt;1</b>	<1	<1	2
Molybdenum	ppm	<b>64</b>	46	57	92
Nickel	ppm	<b>0</b>	0	<1	2
Titanium	ppm	<b>&lt;1</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	<1



## ADDITIVES

Calcium	ppm	<b>1402</b>	1655	1652	1412
Magnesium	ppm	<b>929</b>	600	669	402
Zinc	ppm	<b>1338</b>	1010	1338	1214
Phosphorus	ppm	<b>1069</b>	832	1039	979
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>47</b>	78	32	135

## 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:** VOLVO0095  
**Unique No:** 10649636  
**Signed:** Wes Davis  
**Report Date:** 20 Sep 2023



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## GRAPHS

