



# CONSTRUCTION EQUIPMENT

## SWA411421 COASTAL VOLVO L120H 632589 - DIESEL ENGINE



**Sample No:** VCP413176  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWA411421 COASTAL



### SAMPLE INFORMATION

Sample Number	<b>VCP413176</b>	VCP427149	VCP382583	VCP393585
Sample Date	<b>10 Nov 2023</b>	31 Aug 2023	30 Jun 2023	02 May 2023
Machine Hours	<b>10572</b>	10016	5900	9013
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### ALTA EQUIPMENT COMPANY

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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.8</b>	14.7	13.5	13.3
Base Number (BN)	mg KOH/g	<b>8.9</b>	9.1	10.9	10.3
Oxidation (PA)	%	<b>62</b>	57	76	77



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.9</b>	0.7	0.2	0.4
Nitration (PA)	%	<b>69</b>	66	49	61
Sulfation (PA)	%	<b>57</b>	54	60	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>10</b>	5	4	6
Sodium	ppm	<b>0</b>	2	1	2
Potassium	ppm	<b>2</b>	2	1	2



### WEAR METALS

Iron	ppm	<b>13</b>	11	4	10
Copper	ppm	<b>1</b>	1	<1	0
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>13</b>	10	4	12
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>70</b>	64	46	57
Nickel	ppm	<b>&lt;1</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	<1	0



### ADDITIVES

Calcium	ppm	<b>1198</b>	1402	1655	1652
Magnesium	ppm	<b>844</b>	929	600	669
Zinc	ppm	<b>1252</b>	1338	1010	1338
Phosphorus	ppm	<b>1008</b>	1069	832	1039
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>44</b>	47	78	32

### 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:** 10751291  
**Signed:** Sean Felton  
**Report Date:** 21 Nov 2023



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## VOLVO GRAPHS

