



# CONSTRUCTION EQUIPMENT

SWA383800 COASTAL WA VOLVO L120H 632608 - DIESEL ENGINE



**Sample No:** VCP429261  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWA383800 COASTAL WA



## SAMPLE INFORMATION

Sample Number	<b>VCP429261</b>	VCP415768	VCP399650	VCP382627
Sample Date	<b>19 Oct 2023</b>	30 Aug 2023	27 Mar 2023	28 Jan 2023
Machine Hours	<b>9754</b>	9298	7956	7518
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

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## OIL CONDITION

Visc @ 100°C	cSt	<b>14.8</b>	13.7	13.3	14.4
Base Number (BN)	mg KOH/g	<b>9.3</b>	9.0	10.2	3.0
Oxidation (PA)	%	<b>59</b>	61	79	76

### 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

Soot %	%	<b>0.4</b>	0.5	0.4	0.3
Nitration (PA)	%	<b>58</b>	65	61	51
Sulfation (PA)	%	<b>53</b>	55	62	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	6	6	7
Sodium	ppm	<b>2</b>	3	2	2
Potassium	ppm	<b>0</b>	0	<1	<1



## WEAR METALS

Iron	ppm	<b>10</b>	16	9	18
Copper	ppm	<b>&lt;1</b>	1	<1	<1
Lead	ppm	<b>0</b>	<1	0	2
Tin	ppm	<b>&lt;1</b>	<1	<1	1
Aluminum	ppm	<b>8</b>	12	7	11
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>60</b>	70	43	64
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1064</b>	1321	1485	1203
Magnesium	ppm	<b>985</b>	1032	535	886
Zinc	ppm	<b>1302</b>	1331	1100	1271
Phosphorus	ppm	<b>957</b>	1120	905	1039
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>4</b>	14	28	26

**Depot:** VOLVO0095  
**Unique No:** 10711589  
**Signed:** Sean Felton  
**Report Date:** 27 Oct 2023



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## GRAPHS

