



# CONSTRUCTION EQUIPMENT

## SW-20708-2 AMCOR VOLVO L110H 632083 - DIESEL ENGINE



**Sample No:** VCP426865  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SW-20708-2 AMCOR



### SAMPLE INFORMATION

Sample Number	<b>VCP426865</b>	VCP406773	VCP404019	VCP385600
Sample Date	<b>03 Jul 2023</b>	18 Apr 2023	17 Jan 2023	28 Oct 2022
Machine Hours	<b>4854</b>	4297	3736	3237
Oil Hours	<b>550</b>	500	580	86
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.8</b>	13.7	13.9	14.3
Base Number (BN)	mg KOH/g	<b>10.0</b>	9.4	10.0	10.5
Oxidation (PA)	%	<b>65</b>	63	61	67



### CONTAMINATION

Soot %	%	<b>0.3</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>64</b>	61	56	55
Sulfation (PA)	%	<b>58</b>	55	54	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>2</b>	3	3	4
Sodium	ppm	<b>1</b>	2	2	2
Potassium	ppm	<b>2</b>	0	<1	0



### WEAR METALS

Iron	ppm	<b>6</b>	9	9	13
Copper	ppm	<b>1</b>	2	5	11
Lead	ppm	<b>&lt;1</b>	0	2	7
Tin	ppm	<b>&lt;1</b>	0	<1	2
Aluminum	ppm	<b>2</b>	3	3	5
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>57</b>	68	66	57
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	<1	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1058</b>	1174	1211	1179
Magnesium	ppm	<b>848</b>	983	954	848
Zinc	ppm	<b>1126</b>	1264	1348	1144
Phosphorus	ppm	<b>884</b>	1044	1067	972
Barium	ppm	<b>0</b>	0	2	2
Boron	ppm	<b>6</b>	13	13	15

### 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:** VOLVO8770  
**Unique No:** 10550579  
**Signed:** Don Baldrige  
**Report Date:** 12 Jul 2023



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## GRAPHS

