



# CONSTRUCTION EQUIPMENT

## SW1022825 HYDRO ALUM VOLVO L60H 62256 - DIESEL ENGINE



**Sample No:** VCP417381  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SW1022825 HYDRO ALUM



### SAMPLE INFORMATION

Sample Number	<b>VCP417381</b>	VCP425631	VCP381513	VCP368197
Sample Date	<b>14 Aug 2023</b>	05 Jun 2023	13 Apr 2023	27 Dec 2022
Machine Hours	<b>5326</b>	4943	4627	3863
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	N/A	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.6</b>	13.6	14.2	15.0
Base Number (BN)	mg KOH/g	<b>9.2</b>	9.8	8.7	9.4
Oxidation (PA)	%	<b>69</b>	67	63	64



### CONTAMINATION

Soot %	%	<b>0.6</b>	0.3	0.5	0.5
Nitration (PA)	%	<b>71</b>	53	68	67
Sulfation (PA)	%	<b>57</b>	56	53	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>10</b>	4	5	6
Sodium	ppm	<b>2</b>	<1	1	1
Potassium	ppm	<b>2</b>	0	1	2



### WEAR METALS

Iron	ppm	<b>11</b>	6	12	17
Copper	ppm	<b>2</b>	0	2	2
Lead	ppm	<b>&lt;1</b>	0	0	1
Tin	ppm	<b>&lt;1</b>	<1	<1	1
Aluminum	ppm	<b>4</b>	3	3	9
Chromium	ppm	<b>1</b>	<1	1	2
Molybdenum	ppm	<b>59</b>	55	61	60
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1314</b>	1172	1165	1345
Magnesium	ppm	<b>904</b>	845	1015	1005
Zinc	ppm	<b>1283</b>	1209	1337	1414
Phosphorus	ppm	<b>1055</b>	998	1108	1074
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>16</b>	17	<1	5

### 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:** VOLVO6174  
**Unique No:** 10608039  
**Signed:** Wes Davis  
**Report Date:** 21 Aug 2023



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## GRAPHS

