



# CONSTRUCTION EQUIPMENT

## SPM566531 VOLVO L220H 282Z - FRONT AXLE



**Sample No:** VCP415751  
**Oil Type:** TDH FLUID SAE 75W80  
**Job No:** SPM566531



### SAMPLE INFORMATION

Sample Number	<b>VCP415751</b>	VCP391331	VCP376555	VCP310183
Sample Date	<b>30 Jun 2023</b>	20 Feb 2023	20 Jul 2022	14 Aug 2021
Machine Hours	<b>10936</b>	10007	9117	7254
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	N/A	N/A	Not Changd
Sample Status	<b>NORMAL</b>	ABNORMAL	ABNORMAL	NORMAL

### ALTA EQUIPMENT

5985 COURT STREET ROAD  
 SYRACUSE, NY  
 US 13206  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>40.7</b>	50.0	40.9	41.5
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### CONTAMINATION

Silicon	ppm	<b>11</b>	12	10	8
Sodium	ppm	<b>2</b>	2	3	3
Potassium	ppm	<b>4</b>	0	0	0



### WEAR METALS

Iron	ppm	<b>292</b>	273	258	225
Copper	ppm	<b>8</b>	6	7	7
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>&lt;1</b>	<1	2	<1
Chromium	ppm	<b>5</b>	4	4	4
Molybdenum	ppm	<b>2</b>	2	2	2
Nickel	ppm	<b>2</b>	<1	<1	1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>4</b>	4	4	3
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3014</b>	2673	3026	3041
Magnesium	ppm	<b>12</b>	13	8	9
Zinc	ppm	<b>1398</b>	1060	1236	1247
Phosphorus	ppm	<b>1178</b>	944	1081	1104
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>81</b>	78	82	104

### Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) TDH FLUID SAE 75W80. Please confirm.  
 All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLV00142  
**Unique No:** 10547412  
**Signed:** Wes Davis  
**Report Date:** 07 Jul 2023



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## GRAPHS

