



# CONSTRUCTION EQUIPMENT

SPM578836 VOLVO L180G 19305 - REAR AXLE



**Sample No:** VCP405664  
**Oil Type:** VOLVO WB 102  
**Job No:** SPM578836



## SAMPLE INFORMATION

Sample Number	<b>VCP405664</b>	VCP404608	VCP284689	VCP275836
Sample Date	<b>08 Aug 2023</b>	03 May 2023	02 Jul 2020	02 Apr 2020
Machine Hours	<b>21063</b>	20781	18967	18229
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Not Changd	N/A	Not Changd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	NORMAL

**COVANTA ONONDAGA LP**  
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## OIL CONDITION

Visc @ 40°C	cSt	<b>42.8</b>	43.3	40.5	40.8
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## CONTAMINATION

Silicon	ppm	<b>31</b>	23	12	9
Sodium	ppm	<b>8</b>	5	6	3
Potassium	ppm	<b>&lt;1</b>	<1	3	0



## WEAR METALS

Iron	ppm	<b>59</b>	40	10	6
Copper	ppm	<b>&lt;1</b>	2	<1	0
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>3</b>	<1	1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>3</b>	3	<1	<1
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>&lt;1</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>2</b>	2	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>4136</b>	3935	4060	4060
Magnesium	ppm	<b>29</b>	26	11	10
Zinc	ppm	<b>1615</b>	1596	1518	1662
Phosphorus	ppm	<b>1318</b>	1270	1310	1244
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>179</b>	131	118	118

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** COVJAM  
**Unique No:** 10602880  
**Signed:** Sean Felton  
**Report Date:** 14 Aug 2023

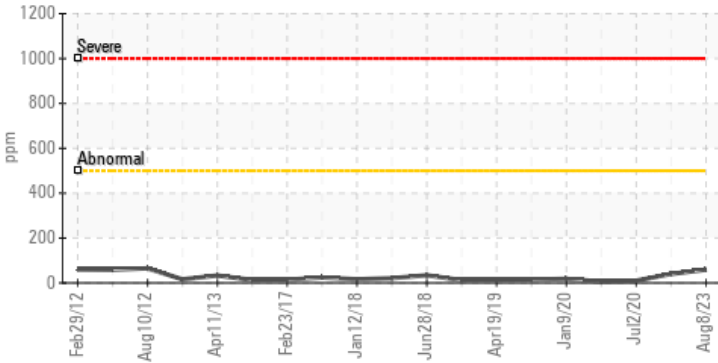


# CONSTRUCTION EQUIPMENT

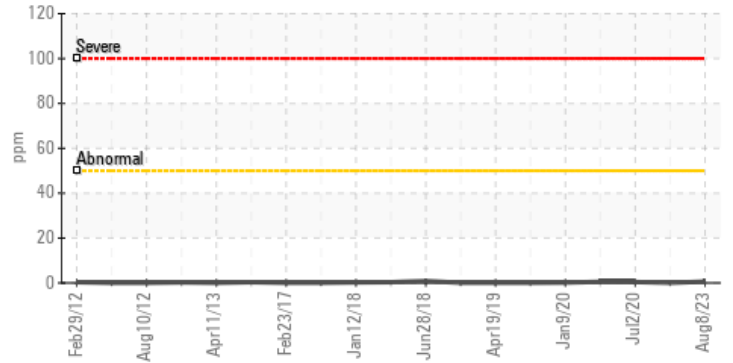


## GRAPHS

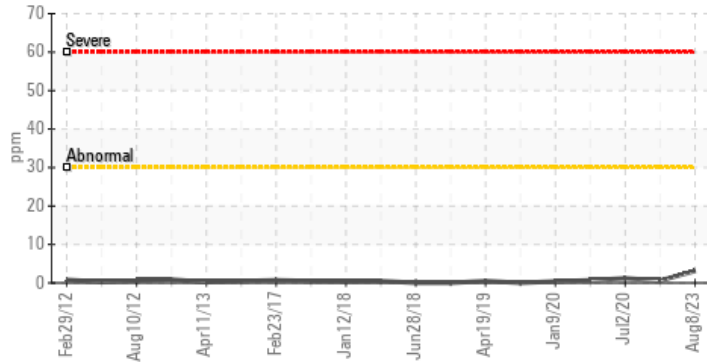
### Iron (ppm)



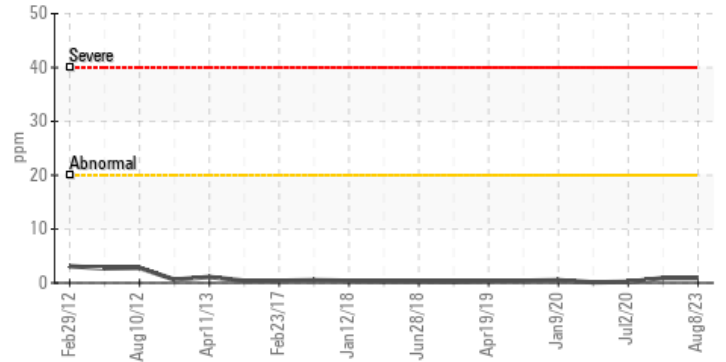
### Lead (ppm)



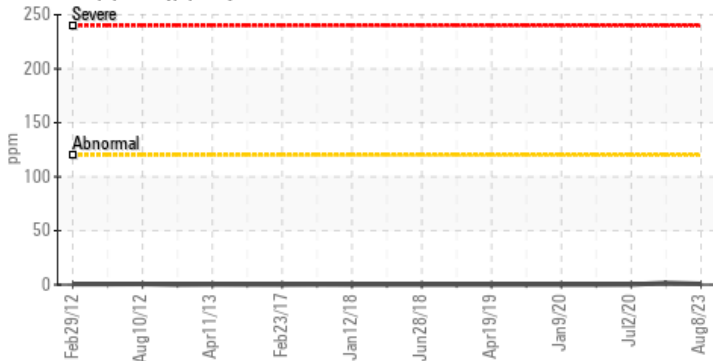
### Aluminum (ppm)



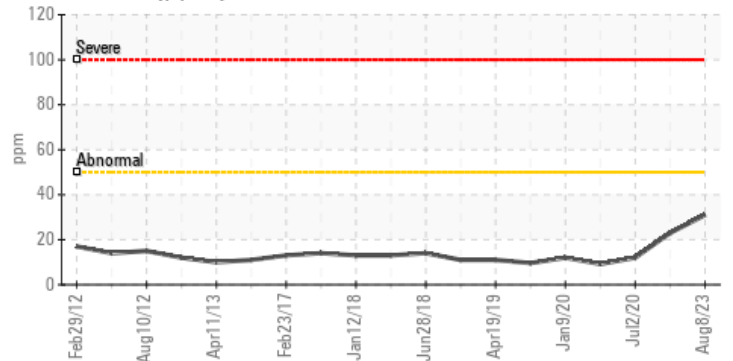
### Chromium (ppm)



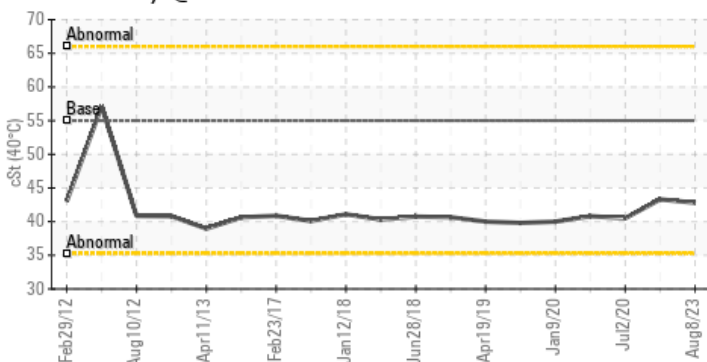
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### Additives

