



# CONSTRUCTION EQUIPMENT

## SML VOLVO L90F 68153 - DIESEL ENGINE



**Sample No:** VCP425533  
**Oil Type:** PETRO CANADA 10W30  
**Job No:** SML



### SAMPLE INFORMATION

Sample Number	<b>VCP425533</b>	VCP289196	VCE080301	VCE61417
Sample Date	<b>20 Feb 2024</b>	24 May 2021	11 Aug 2014	24 Apr 2014
Machine Hours	<b>9619</b>	9320	7349	7026
Oil Hours	<b>300</b>	0	0	371
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>11.6</b>	11.7	14.71	14.55
Base Number (BN)	mg KOH/g	<b>5.6</b>	---	---	---
Oxidation (PA)	%	<b>69</b>	74	52	32

### 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

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.3	0.2	0
Nitration (PA)	%	<b>73</b>	73	50	33
Sulfation (PA)	%	<b>63</b>	64	47	39
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	3	2	3
Sodium	ppm	<b>3</b>	3	5	5
Potassium	ppm	<b>10</b>	10	6	9



### WEAR METALS

Iron	ppm	<b>8</b>	5	5	5
Copper	ppm	<b>13</b>	7	2	2
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>1</b>	2	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>3</b>	4	5	4
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>0</b>	<1	0	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>2244</b>	2220	2255	2255
Magnesium	ppm	<b>36</b>	32	33	30
Zinc	ppm	<b>1278</b>	1151	1054	1090
Phosphorus	ppm	<b>1097</b>	1016	943	1028
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>186</b>	206	24	24

**Depot:** WOOSTM  
**Unique No:** 10897102  
**Signed:** Wes Davis  
**Report Date:** 26 Feb 2024

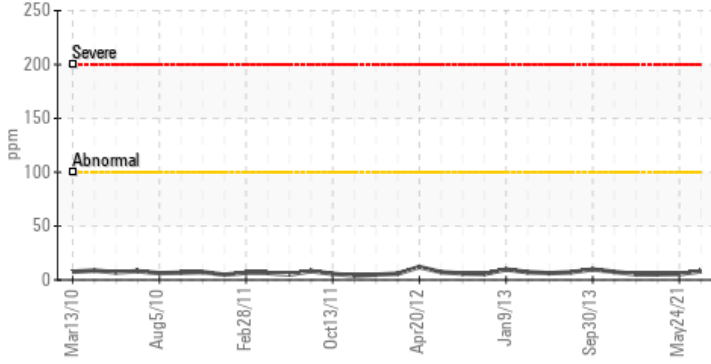


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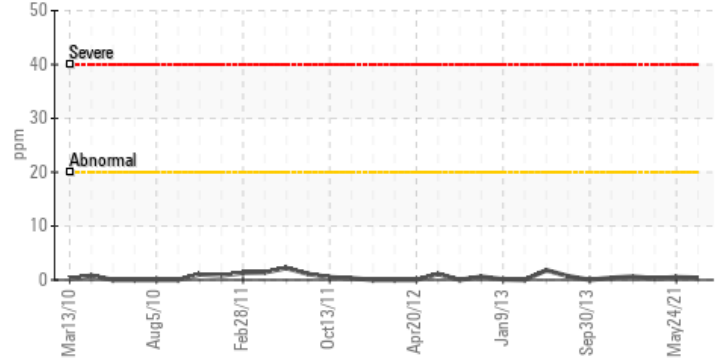


## GRAPHS

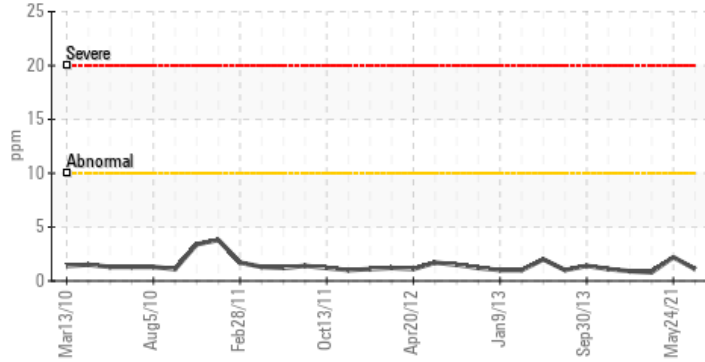
### Iron (ppm)



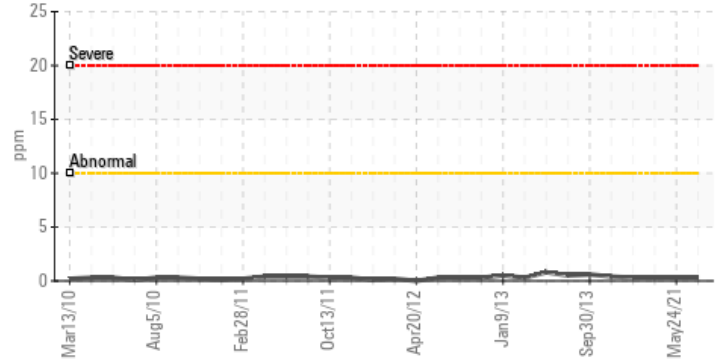
### Lead (ppm)



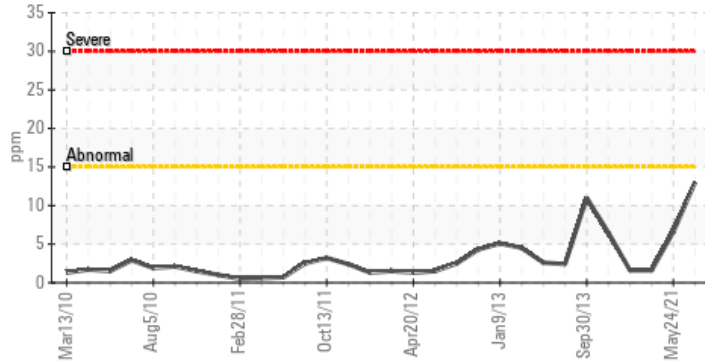
### Aluminum (ppm)



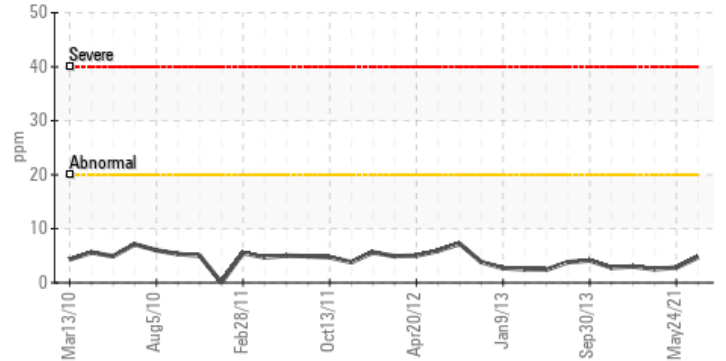
### Chromium (ppm)



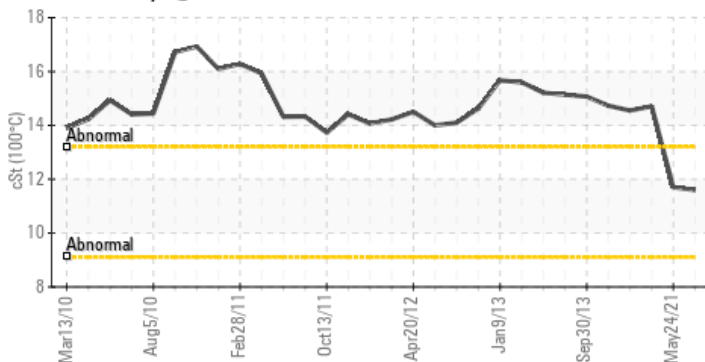
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

