



# CONSTRUCTION EQUIPMENT

## 203 VOLVO L180G 19985 - HYDRAULIC SYSTEM



**Sample No:** VC406493  
**Oil Type:** CHEVRON 1000 THF  
**Job No:** 203



### SAMPLE INFORMATION

Sample Number	<b>VC406493</b>	VCE52464	VC266754	---
Sample Date	<b>29 Nov 2023</b>	28 Nov 2023	10 Feb 2015	---
Machine Hours	<b>6548</b>	6548	786	---
Oil Hours	<b>6548</b>	6548	786	---
Oil Changed	<b>Not Changd</b>	Not Changd	Not Changd	---
Sample Status	<b>SEVERE</b>	ATTENTION	ABNORMAL	---

**OCONTO COUNTY HIGHWAY**  
 PO BOX 138  
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 US 54153  
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 T: (920)834-6885  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>47.6</b>	47.5	39.77	---
Acid Number (AN)	mg KOH/g	<b>1.17</b>	1.08	0.579	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>157724</b>	13565	17702	---
Particles >6µm		<b>73635</b>	2899	6489	---
Particles >14µm		<b>5612</b>	121	15	---
ISO 4406:1999 (c)		<b>24/23/20</b>	21/19/14	21/20/11	---
Silicon	ppm	<b>16</b>	14	4	---
Sodium	ppm	<b>3</b>	<1	<1	---
Potassium	ppm	<b>2</b>	0	<1	---

### Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Light concentration of visible metal present. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.



### WEAR METALS

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



### ADDITIVES

Calcium	ppm	<b>2082</b>	2068	40	---
Magnesium	ppm	<b>19</b>	18	0	---
Zinc	ppm	<b>1024</b>	1020	427	---
Phosphorus	ppm	<b>832</b>	825	339	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>23</b>	22	0	---

**Depot:** OCOOCO  
**Unique No:** 10781177  
**Signed:** Doug Bogart  
**Report Date:** 14 Dec 2023

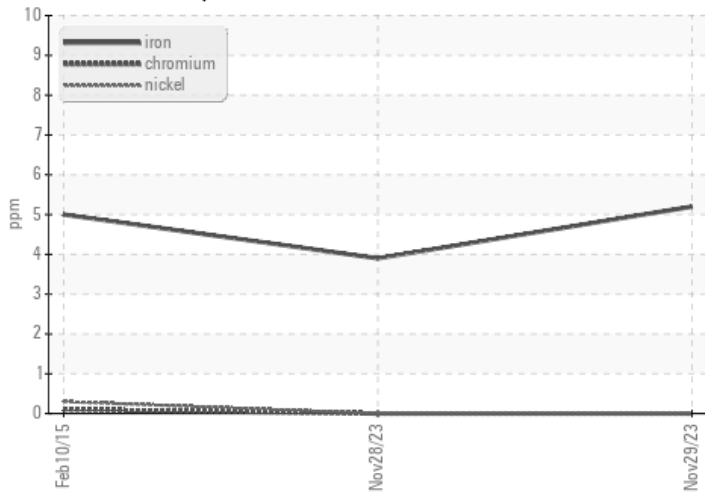


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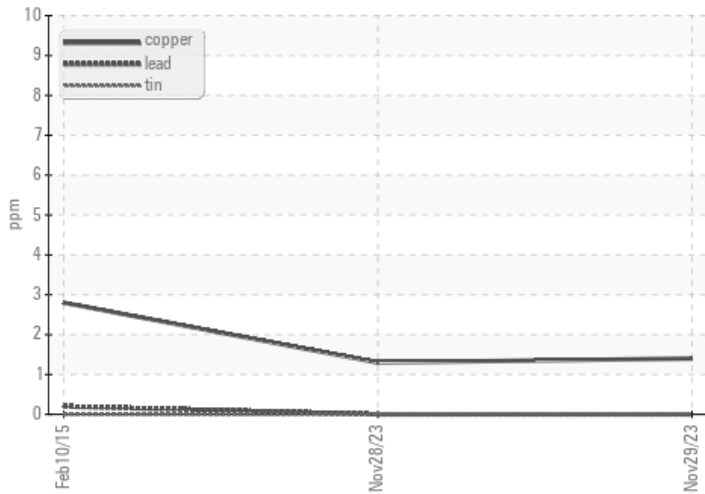


## GRAPHS

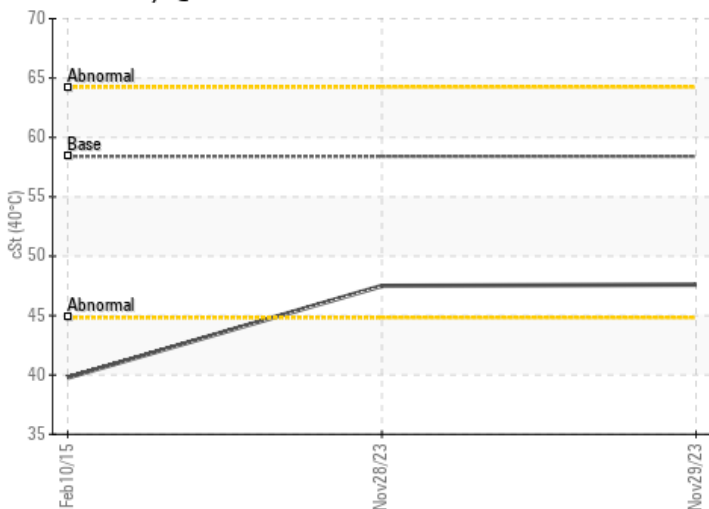
### Ferrous Alloys



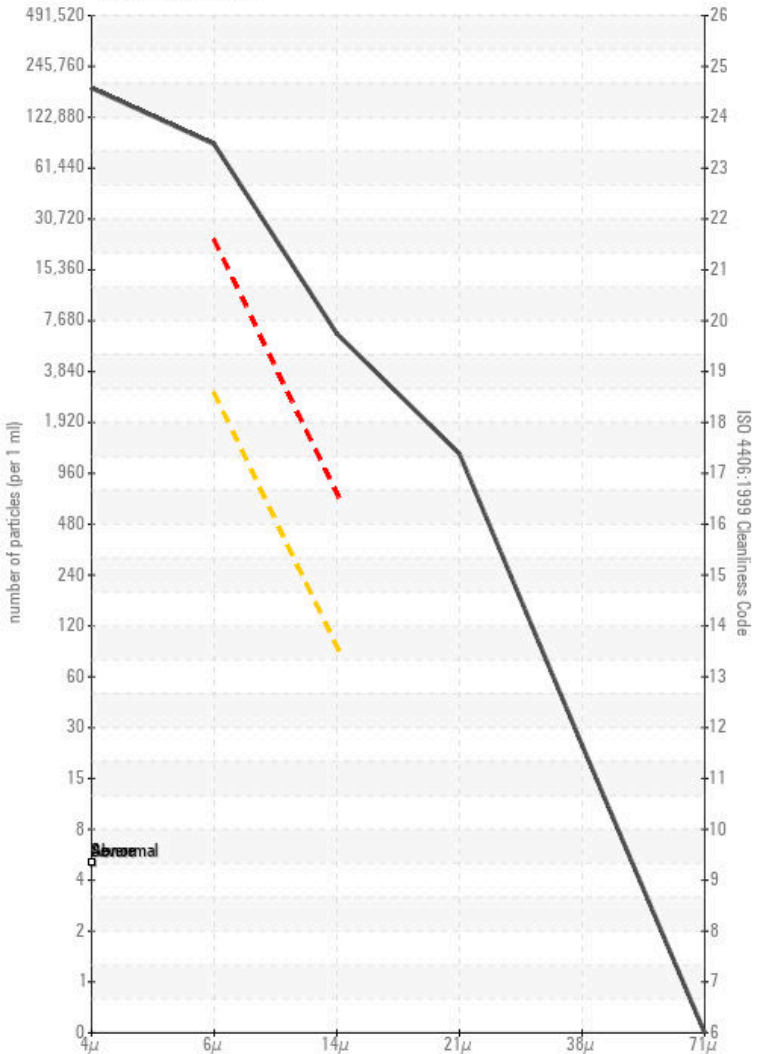
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

