



# CONSTRUCTION EQUIPMENT

TRIPLE M METAL MLF-MAR14-020 VOLVO EC700C 110606 - DIESEL ENGINE



**Sample No:** VCP448148  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** MLF-MAR14-020



## SAMPLE INFORMATION

Sample Number	<b>VCP448148</b>	VCP394175	VCP392499	VCP429991
Sample Date	<b>15 Mar 2024</b>	08 Jan 2024	23 Nov 2023	02 Oct 2023
Machine Hours	<b>29157</b>	28630	613	26833
Oil Hours	<b>1000</b>	0	0	1000
Oil Changed	<b>Changed</b>	Changed	N/A	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### STRONGCO EQUIPMENT (CE)

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 Burlington, ON  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	12.8	12.6	12.6
Oxidation (PA)	%	<b>82</b>	84	90	82

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0</b>	0.1	0.1	0.2
Nitration (PA)	%	<b>58</b>	62	65	70
Sulfation (PA)	%	<b>62</b>	63	66	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>1</b>	3	3	3
Sodium	ppm	<b>8</b>	2	2	2
Potassium	ppm	<b>0</b>	<1	0	0

### 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 condition of the oil is acceptable for the time in service.

## WEAR METALS

Iron	ppm	<b>5</b>	7	9	13
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	<1	<1	2
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>0</b>	1	1	1
Chromium	ppm	<b>0</b>	0	0	0
Molybdenum	ppm	<b>40</b>	43	45	49
Nickel	ppm	<b>&lt;1</b>	<1	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>0</b>	0	0	0
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1623</b>	1612	1600	1319
Magnesium	ppm	<b>548</b>	569	598	724
Zinc	ppm	<b>1053</b>	1080	1096	1136
Phosphorus	ppm	<b>886</b>	916	914	925
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>40</b>	37	32	13

**Depot:** VOLVO0252  
**Unique No:** 5748802  
**Signed:** Wes Davis  
**Report Date:** 21 Mar 2024

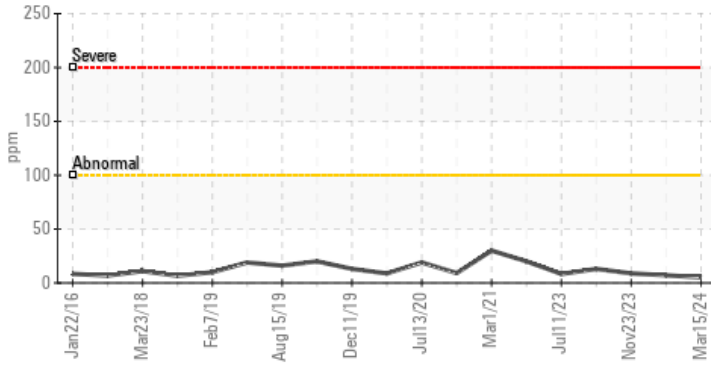


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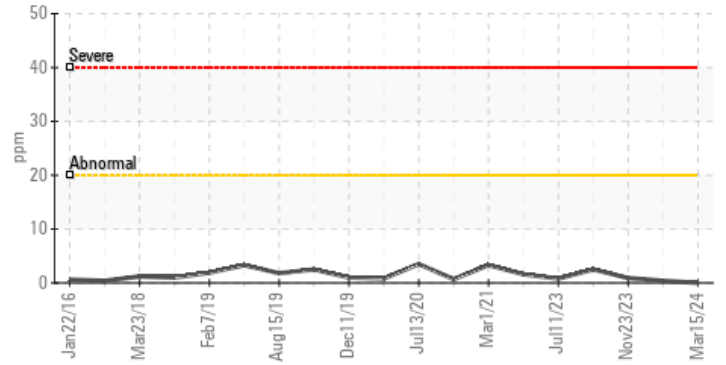


## GRAPHS

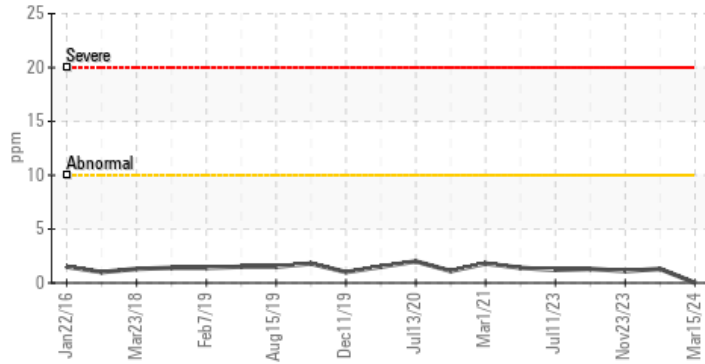
### Iron (ppm)



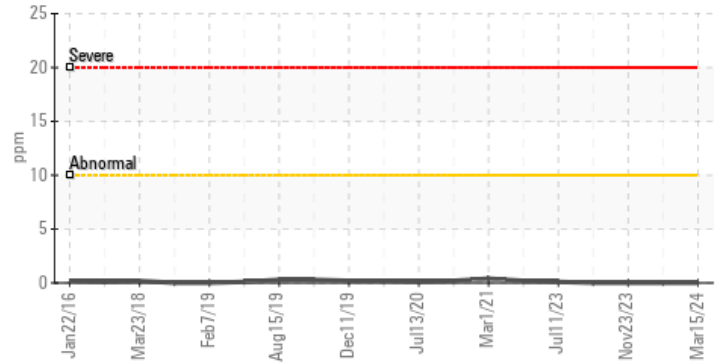
### Lead (ppm)



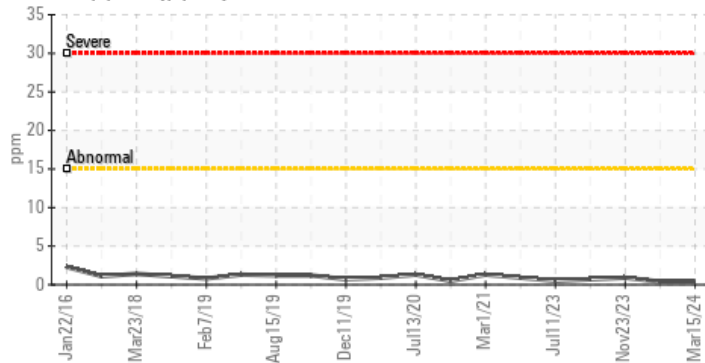
### Aluminum (ppm)



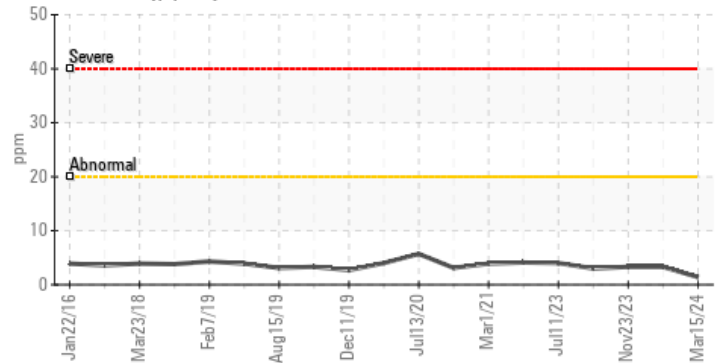
### Chromium (ppm)



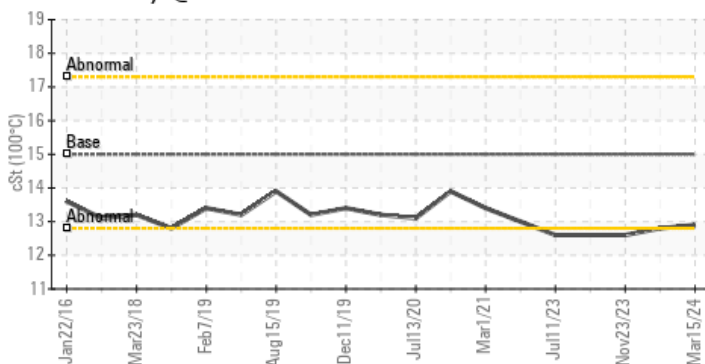
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Soot %

