



# CONSTRUCTION EQUIPMENT

400402 16-8112 - TRANSMISSION (AUTO)



**Sample No:** VCP448204  
**Oil Type:** VOLVO AUTOMATIC TRANSMISSION FLUID AT102  
**Job No:** 400402



## SAMPLE INFORMATION

Sample Number	VCP448204	VCP430147	VCP380509	VCP394601
Sample Date	10 Apr 2024	11 Dec 2023	25 Oct 2023	13 Aug 2023
Machine Hours	10000	9500	9000	8468
Oil Hours	2000	1500	1000	500
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

**CRH CANADA GROUP INC.**  
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CONCORD, ON  
CA L4K 1B6  
Contact: Dan Brown  
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T:  
F:



## OIL CONDITION

Visc @ 40°C	cSt	28.0	27.9	27.9	28.3
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## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	4	4	4
Sodium	ppm	2	2	2	2
Potassium	ppm	<1	<1	0	1



## WEAR METALS

PQ		0	---	---	---
Iron	ppm	159	139	114	116
Copper	ppm	5	5	4	4
Lead	ppm	0	<1	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	1	1	<1	1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	3	2	2	2
Vanadium	ppm	0	0	0	0



## ADDITIVES

Calcium	ppm	72	71	72	73
Magnesium	ppm	1	<1	<1	1
Zinc	ppm	9	7	6	10
Phosphorus	ppm	190	192	195	202
Barium	ppm	<1	<1	<1	<1
Boron	ppm	80	79	80	74

## Diagnosis

We recommend that you drain the fluid from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the fluid. Additive levels indicate the addition of a different brand, or type of fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** HOLCON  
**Unique No:** 5762825  
**Signed:** Kevin Marson  
**Report Date:** 18 Apr 2024

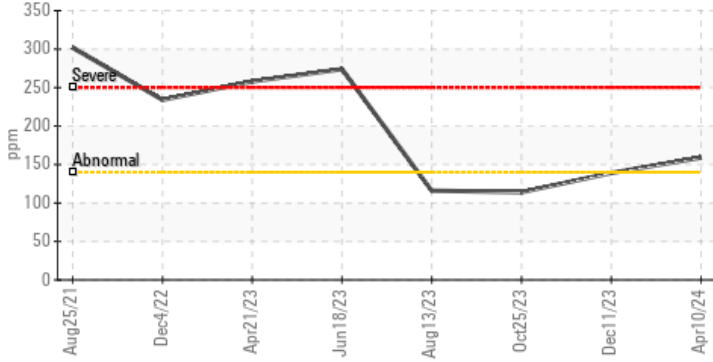


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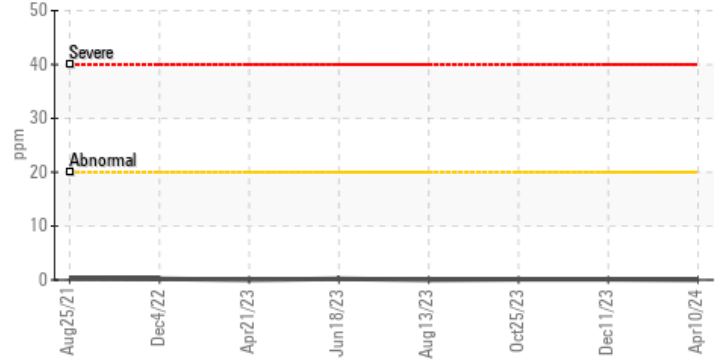


## GRAPHS

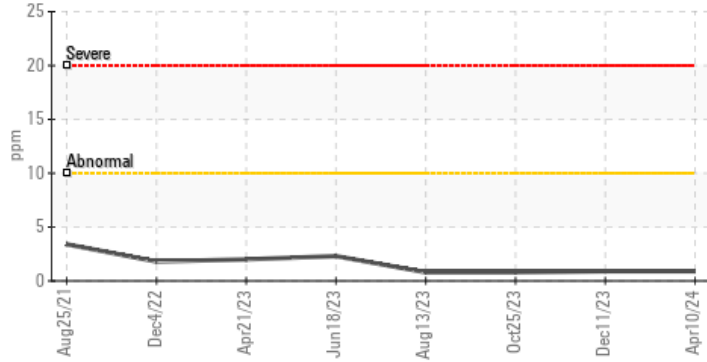
### ▲ Iron (ppm)



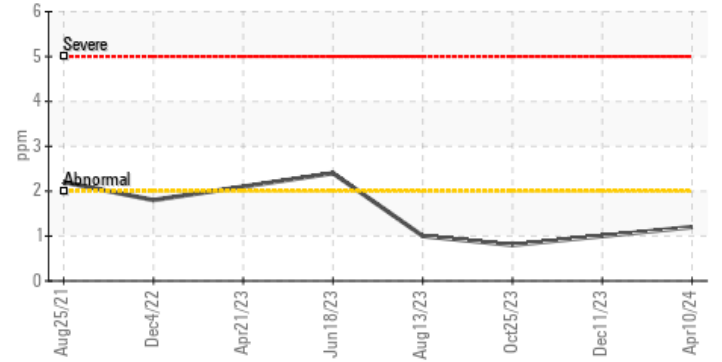
### Lead (ppm)



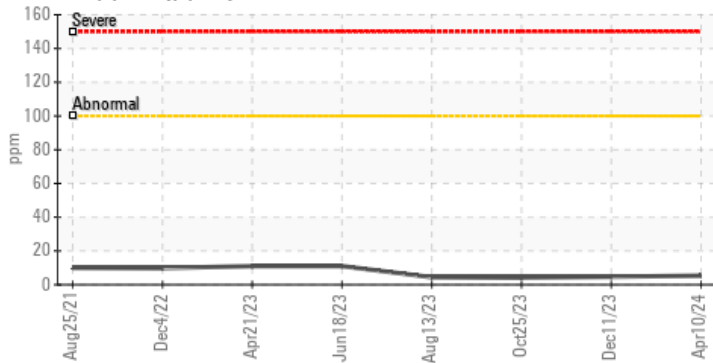
### Aluminum (ppm)



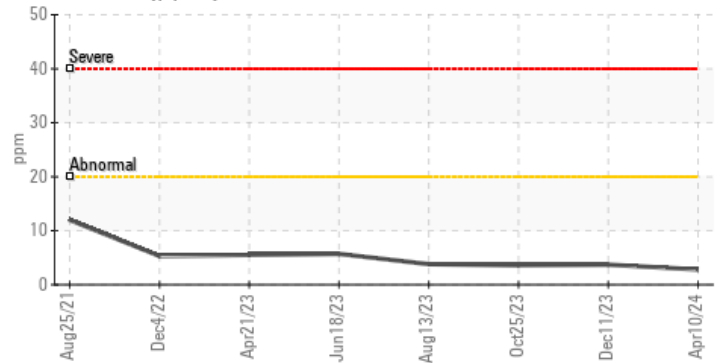
### Chromium (ppm)



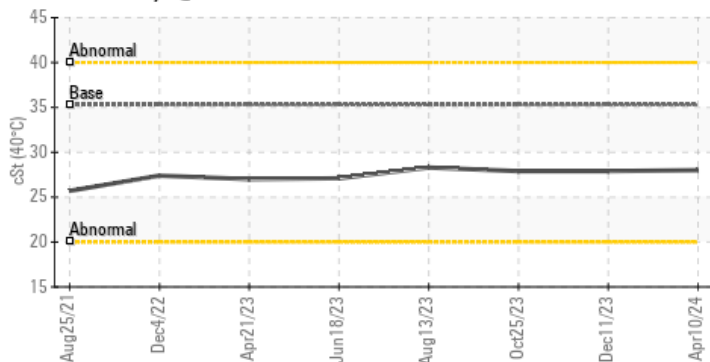
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 40°C



### PQ

