CONSTRUCTION EQUIPMENT
379672 16-8008 - TRANSMISSION (AUTO)

Sample No: VCP391624
Oil Type: VOLVO EXTRA AUTOMATIC FLUID
Job No: 379672

CRH CANADA GROUP INC.
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SAMPLE INFORMATION

Sample Number		**VCP391624**	VCP394714	VCP391764	VCP353248
Sample Date		**29 Sep 2023**	15 Jul 2023	02 May 2023	20 Nov 2022
Machine Hours		**10500**	10000	9499	9077
Oil Hours		**2500**	2000	1500	1000
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**ABNORMAL**	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**27.7**	27.9	27.9	28.1

CONTAMINATION

Silicon	ppm	**6**	6	6	6
Sodium	ppm	**3**	3	2	2
Potassium	ppm	**4**	1	4	4

WEAR METALS

PQ		**0**	---	---	---
Iron	ppm	▲ **161**	56	112	109
Copper	ppm	**5**	11	3	3
Lead	ppm	**<1**	0	<1	0
Tin	ppm	**0**	0	0	0
Aluminum	ppm	**<1**	5	<1	<1
Chromium	ppm	**0**	<1	0	0
Molybdenum	ppm	**0**	0	0	0
Nickel	ppm	**<1**	<1	0	<1
Titanium	ppm	**0**	0	0	0
Silver	ppm	**<1**	0	0	0
Manganese	ppm	**1**	2	2	2
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**135**	73	144	142
Magnesium	ppm	**<1**	2	<1	2
Zinc	ppm	**32**	34	32	34
Phosphorus	ppm	**200**	208	226	221
Barium	ppm	**<1**	<1	0	0
Boron	ppm	**71**	65	71	72

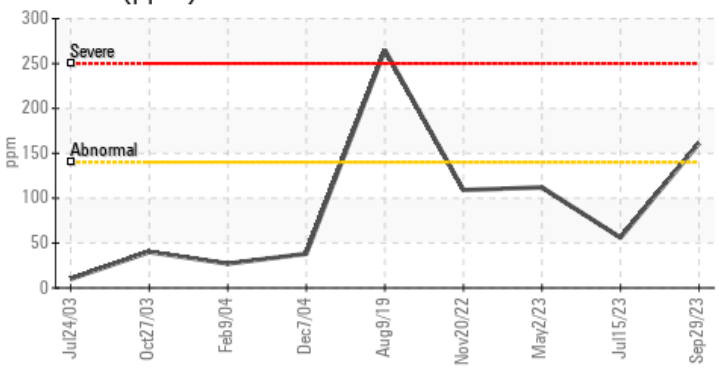
Diagnosis

We recommend that you drain the fluid from the component if this has not already been done. 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. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

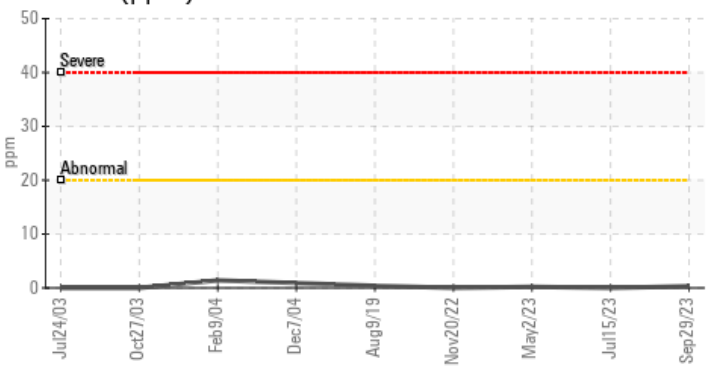
Depot: HOLCON
Unique No: 5657731
Signed: Kevin Marson
Report Date: 12 Oct 2023

GRAPHS

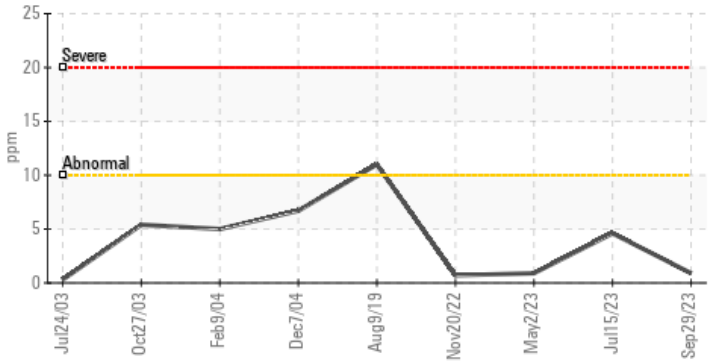
Iron (ppm)



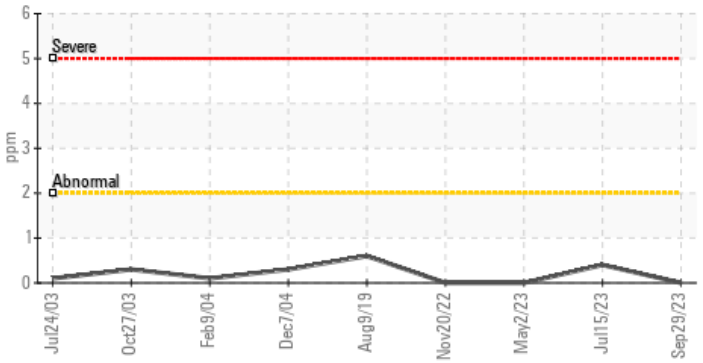
Lead (ppm)



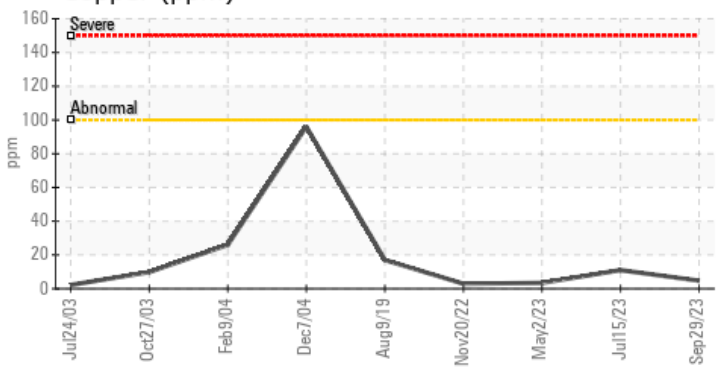
Aluminum (ppm)



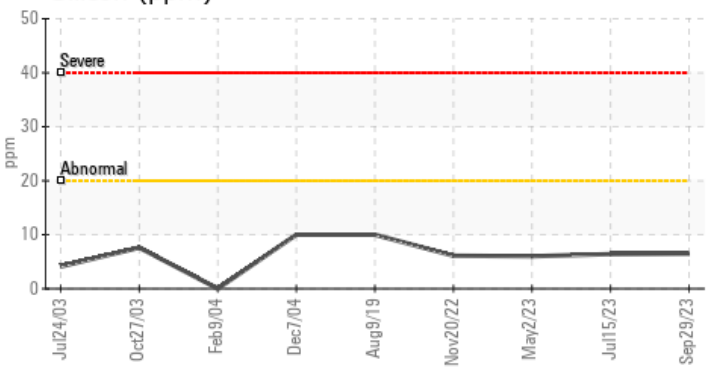
Chromium (ppm)



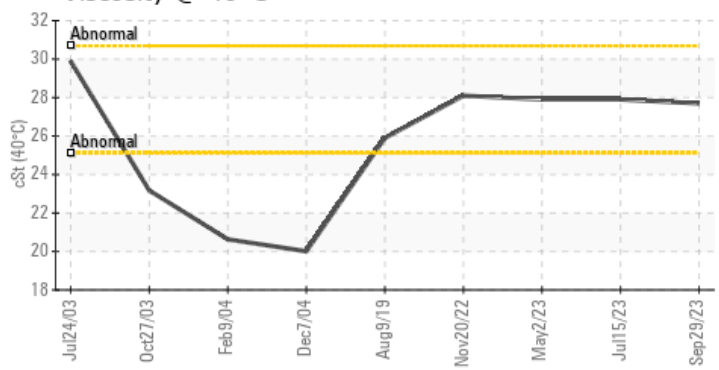
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



PQ