LIEBHERR
CONSTRUCTION EQUIPMENT

[(358698)] LIEBHERR R934 053048-1550 - Right Final Drive

Sample No: LH0294721

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC

AMERICAN IRON AND METAL RECYCLING
116 GOVERNMENT RD N
TIMMINS, ON
CA P4R 1M9
Contact: Service Manager

T: (705)257-7222
F:

Sample Information

Sample Number		**LH0294721**	LH0265659	LH0223891	LH0192638
Sample Date		**03 Jul 2024**	04 Aug 2023	06 Sep 2022	19 May 2022
Machine Hours		**2720**	2011	1073	953
Oil Hours		**0**	0	0	0
Oil Changed		**Changed**	Changed	Not Changd	Changed
Sample Status		**ABNORMAL**	ABNORMAL	NORMAL	NORMAL

Oil Condition

Visc @ 40°C	cSt	**98.5**	113	162	195

Contamination

Water	%	**NEG**	NEG	NEG	NEG
Silicon	ppm	**882**	432	38	125
Sodium	ppm	**57**	32	5	13
Potassium	ppm	**54**	31	2	10

Wear Metals

PQ		**130**	---	---	---
Iron	ppm	**2222**	1121	114	318
Copper	ppm	**2**	2	<1	<1
Lead	ppm	**1**	2	0	<1
Tin	ppm	**0**	0	0	0
Aluminum	ppm	**176**	92	7	24
Chromium	ppm	**25**	14	2	6
Molybdenum	ppm	**1**	<1	0	<1
Nickel	ppm	**7**	4	<1	3
Titanium	ppm	**9**	5	<1	2
Silver	ppm	**0**	<1	5	1
Manganese	ppm	**19**	11	2	4
Vanadium	ppm	**<1**	<1	0	0

Additives

Calcium	ppm	**190**	148	14	50
Magnesium	ppm	**55**	42	3	8
Zinc	ppm	**28**	26	10	16
Phosphorus	ppm	**1208**	1619	2179	1579
Barium	ppm	**2**	3	2	17
Boron	ppm	**252**	156	36	5

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. 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. Aluminum ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: AIMTIM
Unique No: 5803102
Signed: Kevin Marson
Report Date: 05 Jul 2024

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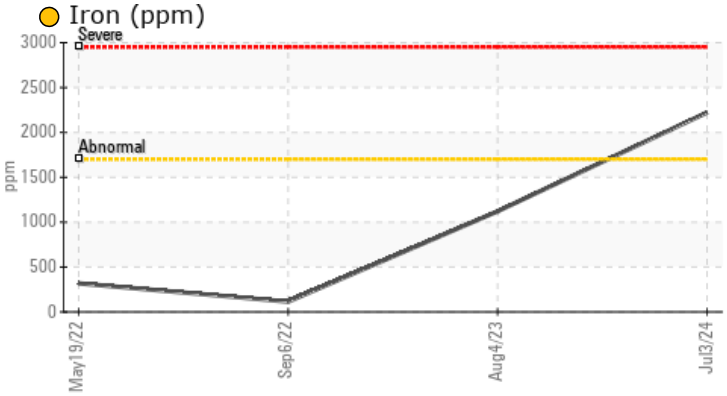
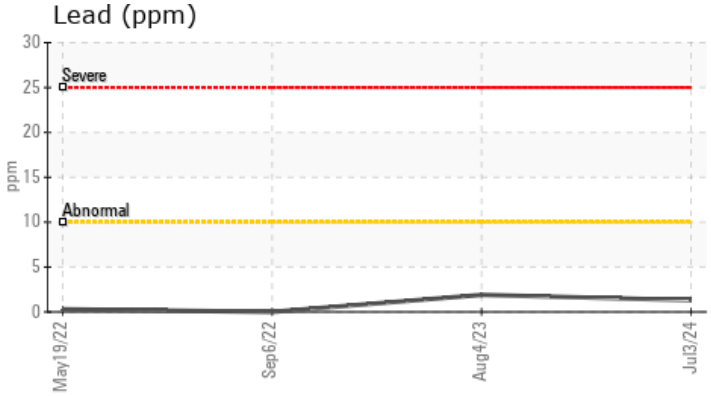
Graphs

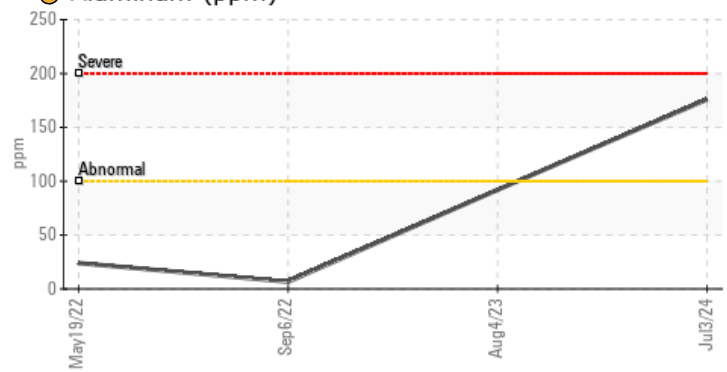
Iron (ppm)



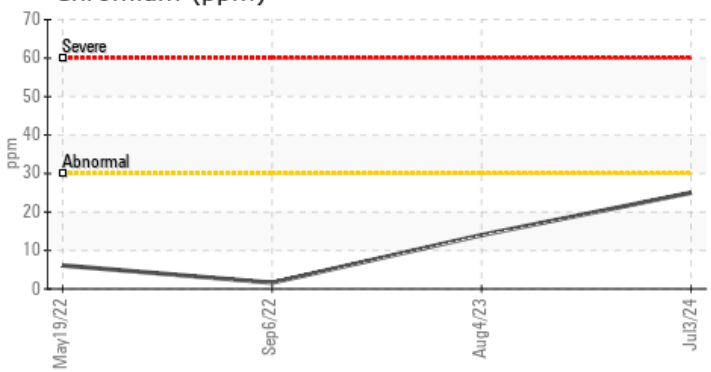
Lead (ppm)



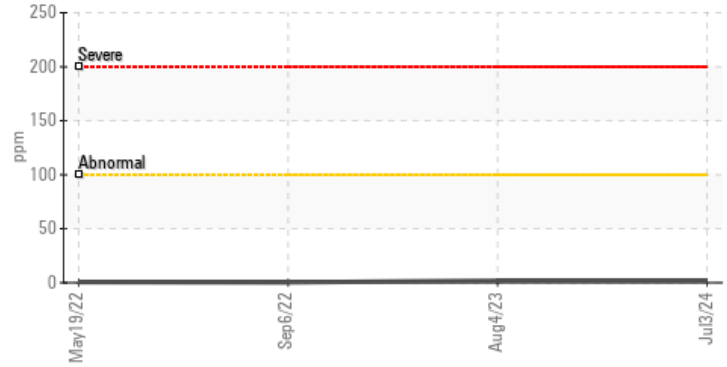
Aluminum (ppm)



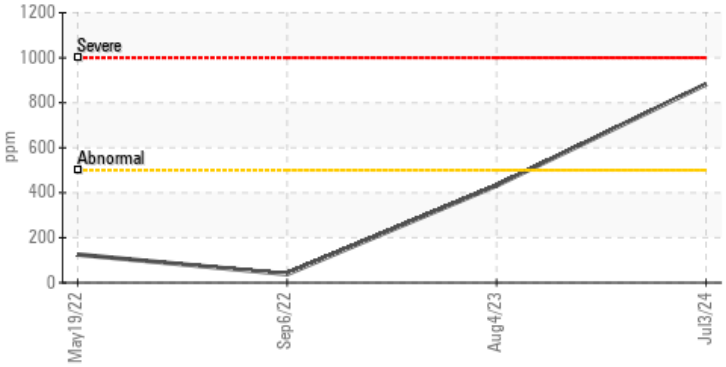
Chromium (ppm)



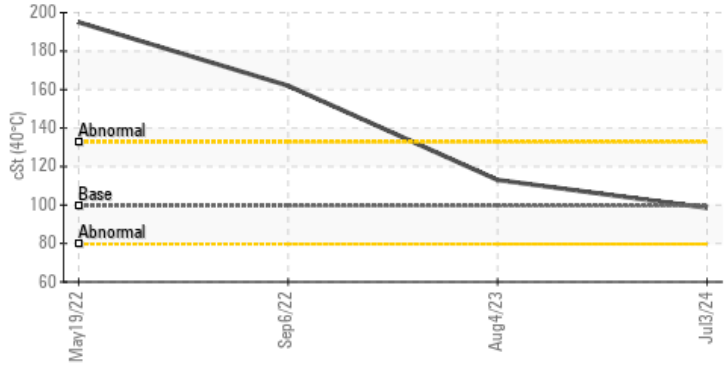
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



PQ