LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR R938 050294-1650 - Left Final Drive

Sample No: LH0172345

Oil Type: GEAR OIL SAE 75W90

MOOREFIELD EXCAVATING LTD.
6297 WELLINGTON RD. 109S, RR #3
HARRISTON, ON
CA N0G 1Z0
Contact: John Landman
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T: (519)343-3571
F: (519)510-3277

INFORMATION SUR L'éCHANTILLON

Numéro d'échant.		**LH0172345**	LH0257073	LH0172318	LH0172327
Date d'échant.		**11 Jul 2023**	21 Mar 2023	14 Oct 2021	02 Jun 2021
Heures de la Machine		**4478**	4098	2273	1617
Heures de l'huile		**0**	0	0	0
Huile changée		**Not Changd**	Changed	Changed	Not Changd
Statut de l'echant.		**ABNORMAL**	SEVERE	NORMAL	NORMAL

ÉTAT D'HUILE

Visc 40°C	cSt	**102**	91.5	174	175

CONTAMINATION

Silicium	ppm	**250**	783	30	35
Sodium	ppm	**11**	37	3	3
Potassium	ppm	**17**	53	4	4

MéTAUX D'USURE

PQ		**18**	160	---	---
Fer	ppm	**1164**	2208	380	210
Cuivre	ppm	**<1**	2	<1	<1
Plomb	ppm	**0**	1	0	0
Étain	ppm	**0**	0	0	0
Aluminium	ppm	**46**	141	8	11
Chrome	ppm	**15**	24	9	4
Molybdène	ppm	**1**	2	<1	<1
Nickel	ppm	**<1**	2	<1	<1
Titane	ppm	**3**	9	<1	<1
Argent	ppm	**0**	0	<1	<1
Manganèse	ppm	**9**	15	9	5
Vanadium	ppm	**<1**	<1	0	0

ADDITIFS

Calcium	ppm	**221**	574	73	83
Magnésium	ppm	**88**	211	22	23
Zinc	ppm	**10**	23	24	23
Phosphore	ppm	**1279**	1236	1135	1191
Baryum	ppm	**<1**	0	13	16
Bore	ppm	**243**	103	2	2

Diagnostic

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.Chromium and 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 oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: MOOPAL
Unique No: 5616551
Signed: Kevin Marson
Report Date: 24 Jul 2023

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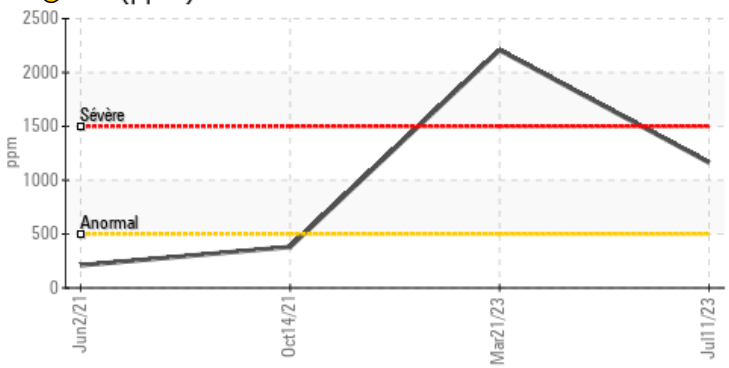
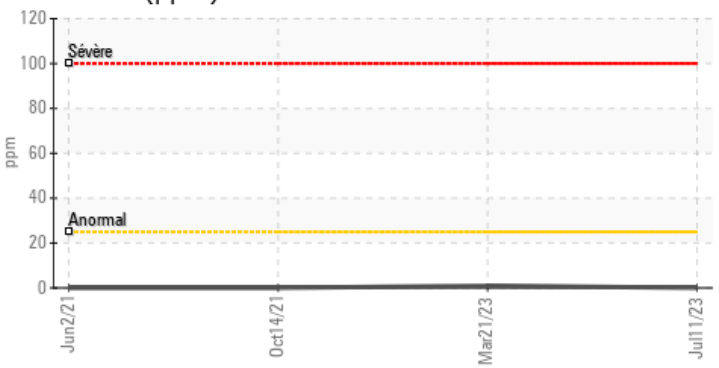
GRAPHS

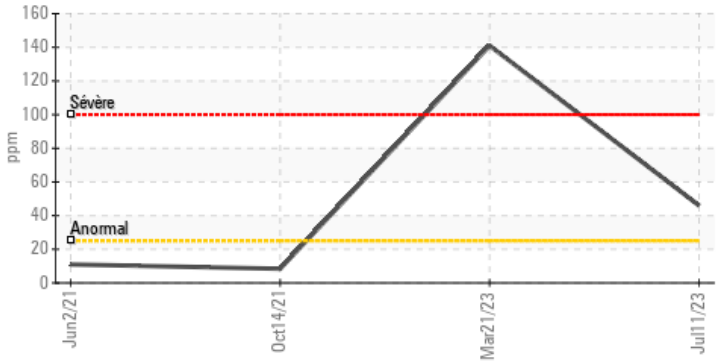
Fer (ppm)



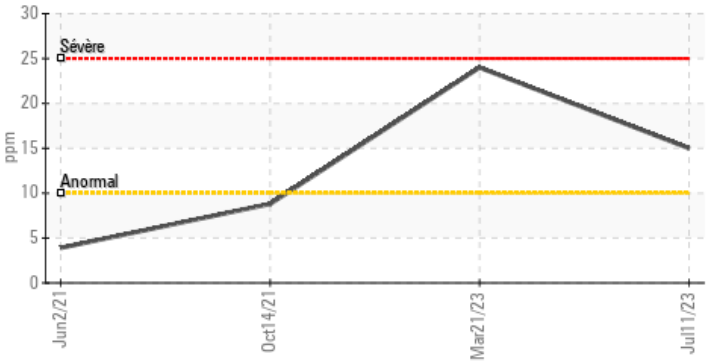
Plomb (ppm)



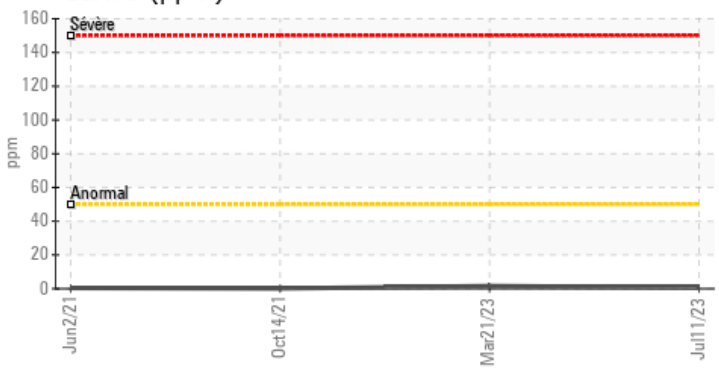
Aluminium (ppm)



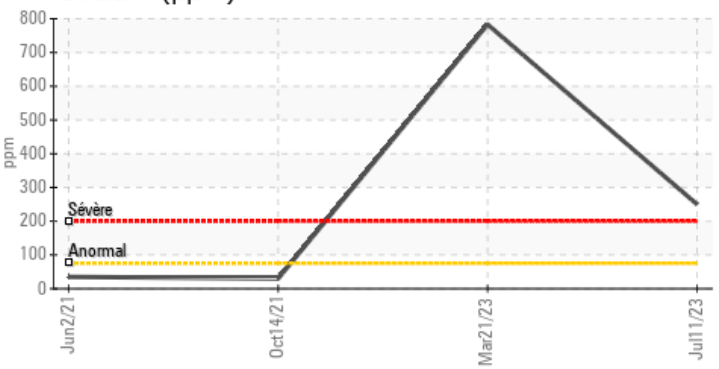
Chrome (ppm)



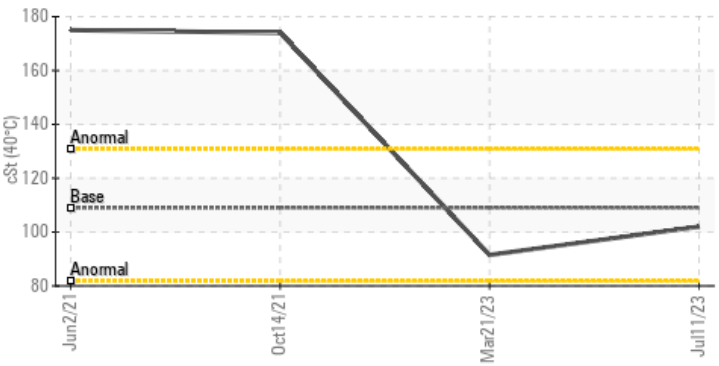
Cuivre (ppm)



Silicium (ppm)



Viscosité 40°C



PQ