LIEBHERR
CONSTRUCTION EQUIPMENT

[(341435)] LIEBHERR LH50M 128733-1216 - Hydraulic System

Sample No: LH0289409

Oil Type: {unknown}

COMBINED METAL INDUSTRIES
454 DOBBIE DRIVE
CAMBRIDGE, ON
CA N1T 1S7
Contact: Service Manager

T:
F:

Information sur l'échantillon

Numéro d'échant.		**LH0289409**	LH0286548	LH0278633	LH0277774
Date d'échant.		**17 Jun 2024**	19 Mar 2024	17 Jan 2024	20 Nov 2023
Heures de la Machine		**10161**	9241	8647	8180
Heures de l'huile		**0**	0	0	0
Huile changée		**Changed**	Not Changd	Not Changd	Not Changd
Statut de l'echant.		**SEVERE**	SEVERE	SEVERE	SEVERE

État d'huile

Visc 40°C	cSt	**40.5**	40.6	41.1	41.4

Contamination

Eau	%	**0.137**	0.016	NEG	NEG
Particules >4µ		**71540**	6312	3341	1666
Particules >6µ		**33140**	1698	876	448
Particules >14µ		**5864**	110	58	23
ISO 4406:1999 (c)		**23/22/20**	20/18/14	19/17/13	18/16/12
Silicium	ppm	**2**	<1	2	2
Sodium	ppm	**6**	2	2	2
Potassium	ppm	**7**	<1	1	0

Métaux d'usure

PQ		**18**	14	9	0
Fer	ppm	**149**	140	124	123
Cuivre	ppm	**5**	4	4	4
Plomb	ppm	**<1**	0	<1	<1
Étain	ppm	**0**	0	0	0
Aluminium	ppm	**<1**	0	<1	<1
Chrome	ppm	**2**	1	1	1
Molybdène	ppm	**0**	0	0	0
Nickel	ppm	**<1**	0	<1	0
Titane	ppm	**0**	0	0	0
Argent	ppm	**0**	0	0	<1
Manganèse	ppm	**2**	1	2	2
Vanadium	ppm	**0**	0	0	0

Additifs

Calcium	ppm	**387**	417	415	434
Magnésium	ppm	**2**	2	3	2
Zinc	ppm	**792**	802	779	806
Phosphore	ppm	**648**	632	635	634
Baryum	ppm	**0**	0	0	0
Bore	ppm	**2**	0	0	<1

Diagnostic

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample.Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a high amount of particulates (2 to 100 microns in size) present in the oil. There is a moderate concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: COM454CAM
Unique No: 5800170
Signed: Kevin Marson
Report Date: 21 Jun 2024

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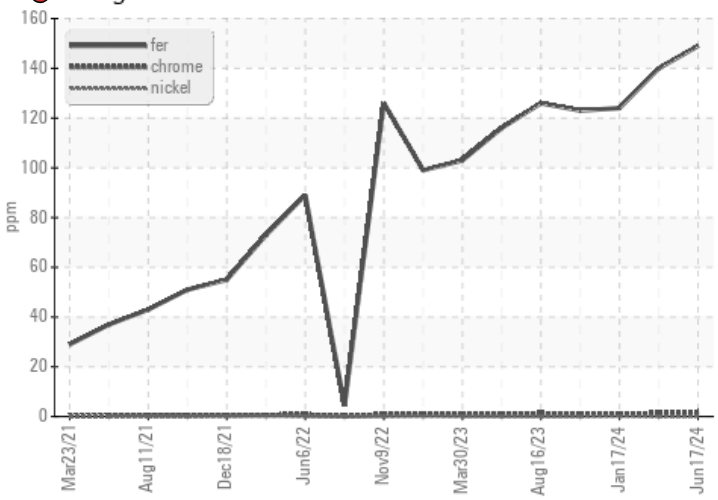
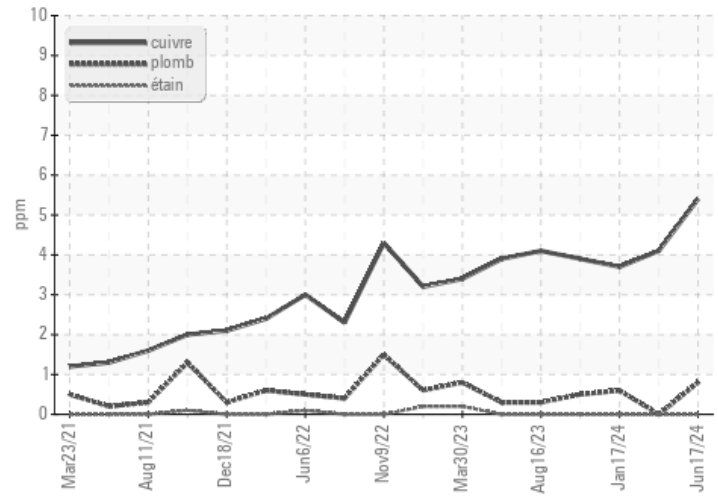
Graphs

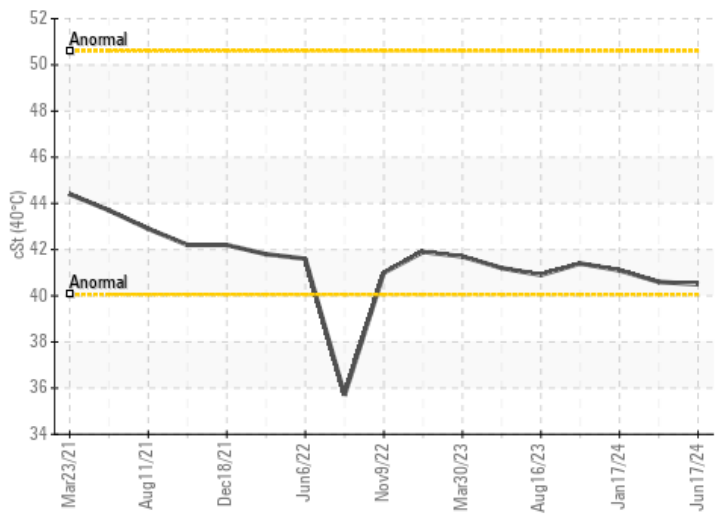
Alliages ferreux



Métaux non-ferreux



Viscosité 40°C



Comptage de particules