

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30M 90077 - Hydraulic System

Sample No: LH0276293

Oil Type: AW HYDRAULIC OIL ISO 46



**ELG Canada**

4375 CORPORATE DRIVE  
BURLINGTON, ON  
CA L7L 5P7

Contact: Service Manager

T:

F: (905)335-9687



#### Sample Information

Sample Number	LH0276293	LH0162789	LH	LH0136855
Sample Date	16 Apr 2024	12 Mar 2020	16 Jul 2019	12 Mar 2019
Machine Hours	6756	4019	4019	3529
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	ABNORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	43.4	43.2	42.8	43.2
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#### Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2009	801	85179	933
Particles >6µm		476	156	16203	170
Particles >14µm		34	9	236	6
ISO 4406:1999 (c)		18/16/12	17/14/10	24/21/15	17/15/10
Silicon	ppm	0	<1	2	1
Sodium	ppm	2	<1	2	2
Potassium	ppm	<1	<1	<1	<1



#### Wear Metals

PQ		0	---	---	---
Iron	ppm	50	21	19	17
Copper	ppm	6	6	5	5
Lead	ppm	<1	1	1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	6	3	3	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	400	754	719	827
Magnesium	ppm	3	4	4	4
Zinc	ppm	459	436	465	452
Phosphorus	ppm	361	351	355	351
Barium	ppm	0	<1	0	0
Boron	ppm	<1	<1	<1	0

#### Diagnosis

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. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm. Chromium ppm levels are abnormal. Iron ppm levels are marginal. Ring wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: STR437BUR

Unique No: 5762803

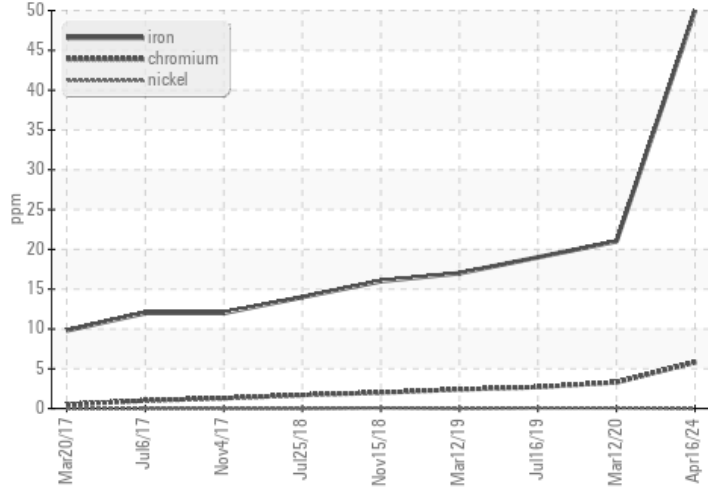
Signed: Kevin Marson

Report Date: 18 Apr 2024

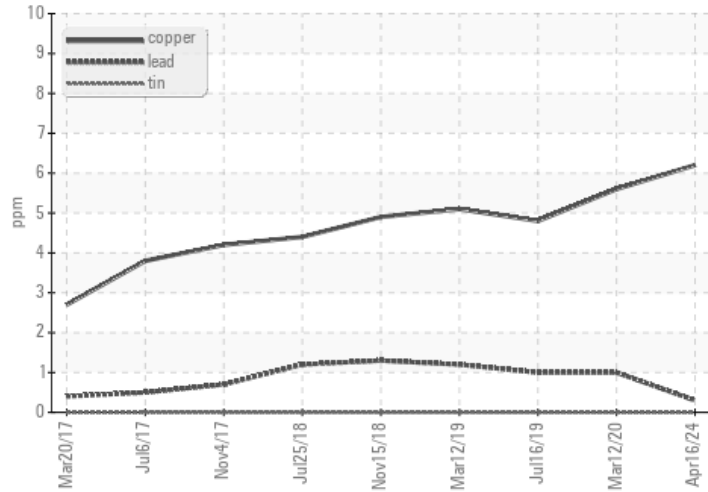


### Graphs

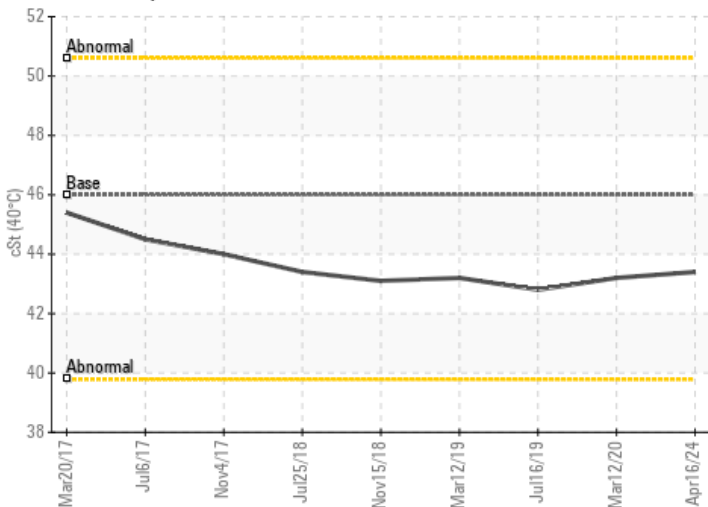
#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

