LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH60M 1204-91655 - Front Right Wheel Hub

Sample No: LH0243888

Oil Type: LIEBHERR GEAR BASIC 90 LS

LIEBHERR EQUIPMENT SOURCE
4100 CHESTNUT AVENUE
NEWPORT NEWS, VA
US 23607
Contact: LUKE APPLEBY
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F: (757)298-8700

SAMPLE INFORMATION

Sample Number		**LH0243888**	LHMC105721	LHMC121238	---
Sample Date		**22 Feb 2024**	08 Mar 2018	10 Nov 2017	---
Machine Hours		**17102**	2994	2025	---
Oil Hours		**0**	1000	1000	---
Oil Changed		**Changed**	Changed	Changed	---
Sample Status		**ABNORMAL**	ABNORMAL	ABNORMAL	---

OIL CONDITION

Visc @ 40°C	cSt	**114**	124.3	184.4	---

CONTAMINATION

Water	%	**NEG**	NEG	NEG	---
Silicon	ppm	**7**	4	2	---
Sodium	ppm	**4**	4	5	---
Potassium	ppm	**0**	10	13	---

WEAR METALS

Iron	ppm	**652**	115	120	---
Copper	ppm	**14**	6	8	---
Lead	ppm	**0**	0	0	---
Tin	ppm	**0**	0	0	---
Aluminum	ppm	**<1**	<1	<1	---
Chromium	ppm	**5**	1	1	---
Molybdenum	ppm	**0**	0	2	---
Nickel	ppm	**0**	<1	1	---
Titanium	ppm	**0**	<1	<1	---
Silver	ppm	**0**	0	0	---
Manganese	ppm	**7**	2	2	---
Vanadium	ppm	**0**	<1	0	---

ADDITIVES

Calcium	ppm	**355**	705	20	---
Magnesium	ppm	**6**	8	2	---
Zinc	ppm	**168**	276	18	---
Phosphorus	ppm	**3074**	2103	1010	---
Barium	ppm	**60**	135	303	---
Boron	ppm	**23**	17	3	---

Diagnosis

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.Gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEBHERRUS
Unique No: 10914013
Signed: Don Baldridge
Report Date: 08 Mar 2024

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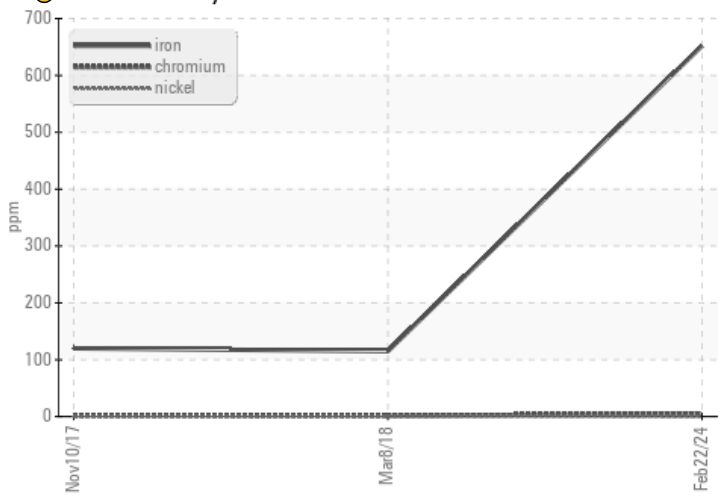
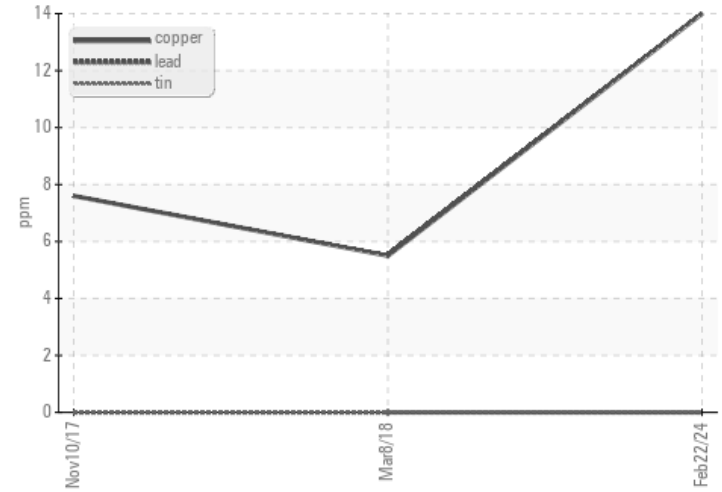
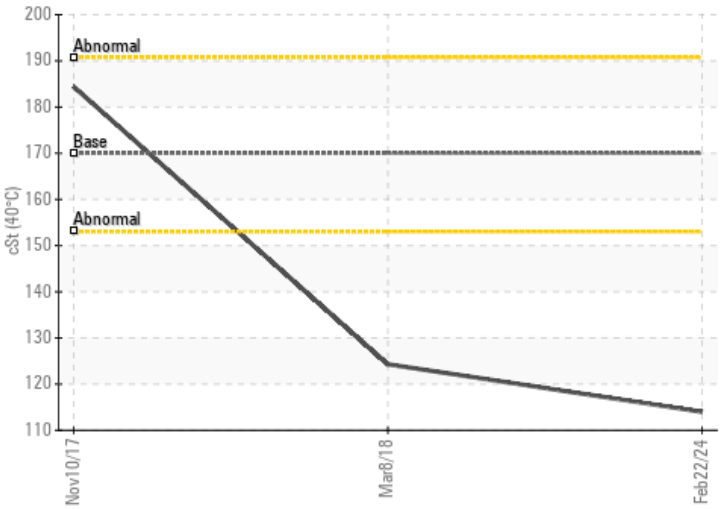
GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C