

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 105464-1253 - Swing Drive

Sample No: LH0258319

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0258319	LHMC164159	LHMC80891	---
Sample Date	11 Aug 2023	24 Jul 2019	19 Feb 2019	---
Machine Hours	6183	883	448	---
Oil Hours	0	0	448	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

TRAM CONSTRUCTION

9279 E KY 8
GARRISON, KY
US 41141
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	203	187	177.1	---
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T:
F:



CONTAMINATION

Silicon	ppm	5	3	<1	---
Sodium	ppm	2	4	8	---
Potassium	ppm	<1	0	1	---

Diagnosis

Resample at the next service interval to monitor. All 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.



WEAR METALS

Iron	ppm	627	321	114	---
Copper	ppm	153	19	7	---
Lead	ppm	<1	<1	0	---
Tin	ppm	13	0	0	---
Aluminum	ppm	1	<1	0	---
Chromium	ppm	5	3	<1	---
Molybdenum	ppm	3	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	4	3	2	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

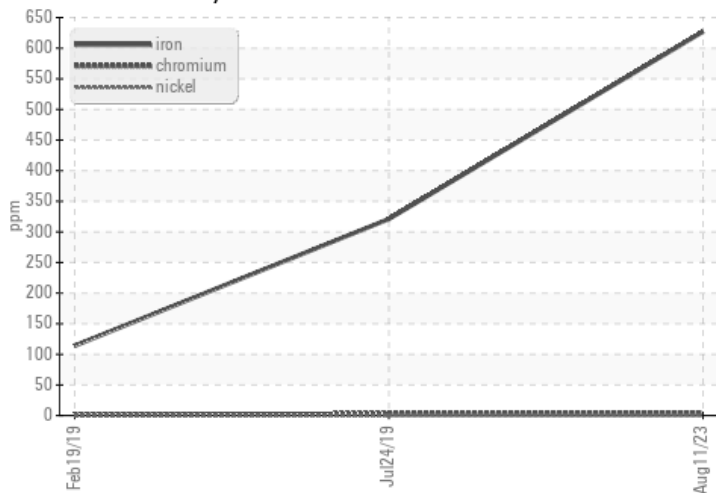
Calcium	ppm	49	144	57	---
Magnesium	ppm	21	54	18	---
Zinc	ppm	40	245	58	---
Phosphorus	ppm	2697	1978	1887	---
Barium	ppm	0	5	0	---
Boron	ppm	7	6	11	---

Depot: TRAGARLH
Unique No: 10615831
Signed: Sean Felton
Report Date: 23 Aug 2023

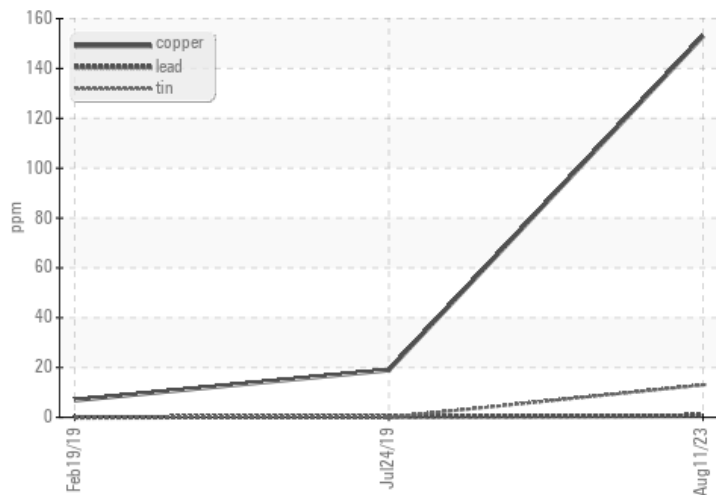


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

