

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R936 045079-1490 - Right Final Drive

Sample No: LH0254093

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0254093	LH0229858	---	---
Sample Date	20 Jul 2023	27 Oct 2022	---	---
Machine Hours	1185	623	---	---
Oil Hours	1185	623	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	NORMAL	---	---

ACECO

10119 RESIDENCY ROAD
MANASSAS, VA
US 20110
Contact: RON BROCK



OIL CONDITION

Visc @ 40°C	cSt	334	194	---	---
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T: (703)392-0111
F: (703)331-5604



CONTAMINATION

Silicon	ppm	27	41	---	---
Sodium	ppm	4	12	---	---
Potassium	ppm	3	5	---	---

Diagnosis

The oil change at the time of sampling has been noted. 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 oil viscosity is higher than normal. Confirm oil type.



WEAR METALS

Iron	ppm	50	99	---	---
Copper	ppm	0	<1	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	10	14	---	---
Chromium	ppm	0	1	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

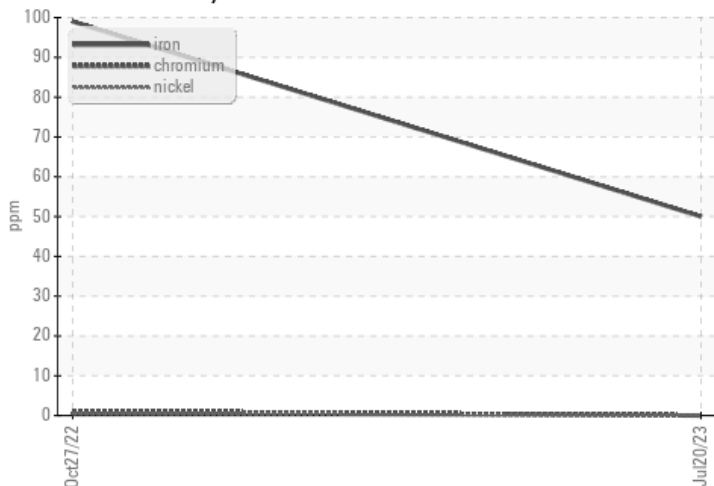
Calcium	ppm	169	36	---	---
Magnesium	ppm	17	46	---	---
Zinc	ppm	35	28	---	---
Phosphorus	ppm	1227	2234	---	---
Barium	ppm	0	10	---	---
Boron	ppm	8	23	---	---

Depot: ACEMAN
Unique No: 10608944
Signed: Don Baldrige
Report Date: 22 Aug 2023

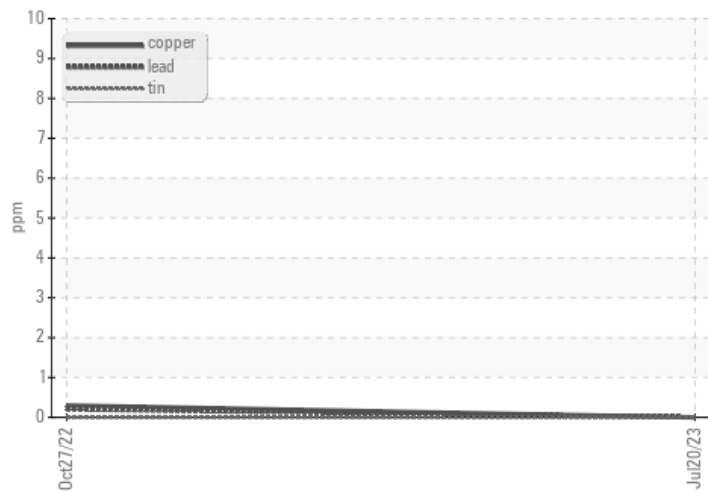


GRAPHS

Ferrous Alloys



Non-ferrous Metals



● Viscosity @ 40°C

