

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR TA230 40305 (S/N 149809-1513) - Front Axle

Sample No: LH0264574

Oil Type: LIEBHERR GEAR BASIC 90 LS



LIEBHERR EQUIPMENT SOURCE
 8200 FAYETTEVILLE ROAD
 RALEIGH, NC
 US 27603
 Contact: TAYLOR BLALOCK
 taylor.blalock@liebherr.com
 T: (757)718-0491
 F: (919)329-0084



Sample Information

Sample Number	LH0264574	---	---	---
Sample Date	01 Apr 2024	---	---	---
Machine Hours	650	---	---	---
Oil Hours	650	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



Oil Condition

Visc @ 40°C	cSt	64.5	---	---	---
-------------	-----	------	-----	-----	-----



Contamination

Water	%	NEG	---	---	---
Silicon	ppm	16	---	---	---
Sodium	ppm	22	---	---	---
Potassium	ppm	0	---	---	---



Wear Metals

Iron	ppm	165	---	---	---
Copper	ppm	56	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	4	---	---	---
Aluminum	ppm	4	---	---	---
Chromium	ppm	2	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	5	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	19	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	3417	---	---	---
Magnesium	ppm	3	---	---	---
Zinc	ppm	1443	---	---	---
Phosphorus	ppm	1229	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	112	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

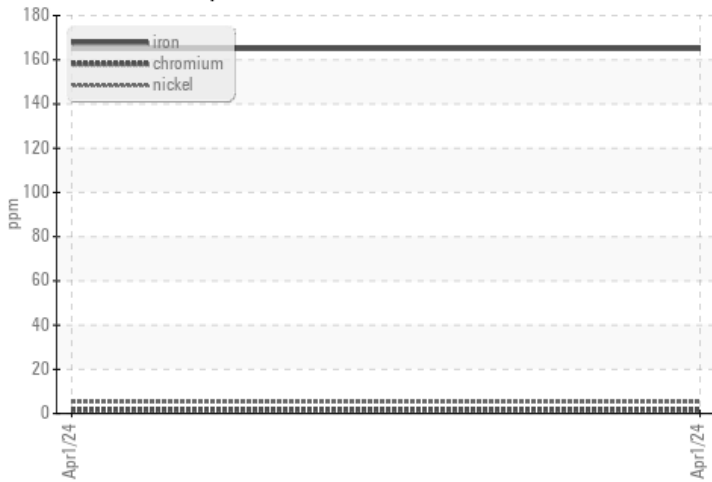
Depot: LIEBHERRNC
 Unique No: 10957208
 Signed: Sean Felton
 Report Date: 05 Apr 2024

Submitted By: TAYLOR BLALOCK

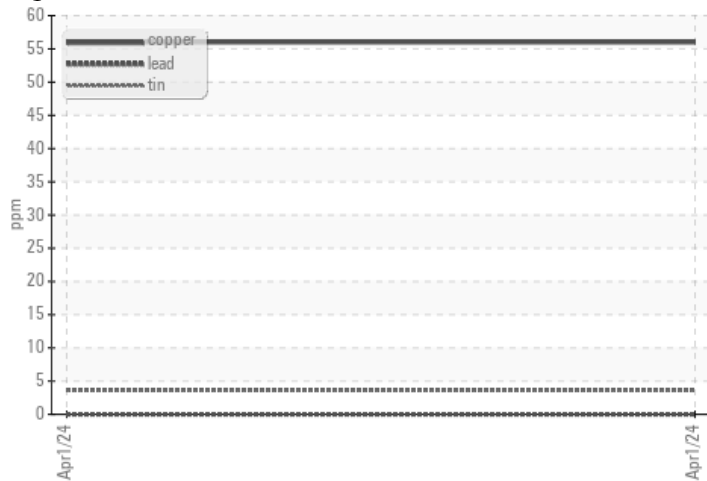


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

