

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR TA230 146110-1513 - Rear Axle

Sample No: LH0272023

Oil Type: LIEBHERR GEAR BASIC 90 LS



LIEBHERR EQUIPMENT SOURCE
 8200 FAYETTEVILLE ROAD
 RALEIGH, NC
 US 27603
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Sample Information

Sample Number	LH0272023	---	---	---
Sample Date	23 Apr 2024	---	---	---
Machine Hours	1278	---	---	---
Oil Hours	1278	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ATTENTION	---	---	---



Oil Condition

Visc @ 40°C	cSt	58.9	---	---	---
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Contamination

Water	%	NEG	---	---	---
Silicon	ppm	13	---	---	---
Sodium	ppm	13	---	---	---
Potassium	ppm	0	---	---	---



Wear Metals

Iron	ppm	193	---	---	---
Copper	ppm	93	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	4	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	42	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	3365	---	---	---
Magnesium	ppm	10	---	---	---
Zinc	ppm	1388	---	---	---
Phosphorus	ppm	1242	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	75	---	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.

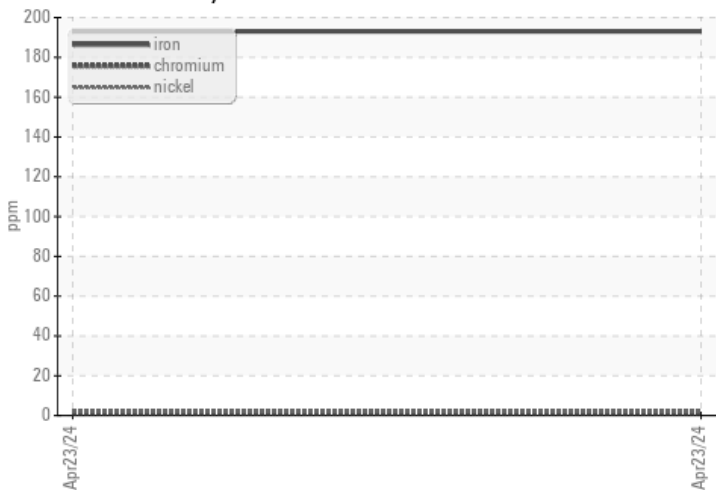
Depot: LIEBHERRNC
 Unique No: 10996209
 Signed: Don Baldrige
 Report Date: 29 Apr 2024

Submitted By: TAYLOR BLALOCK

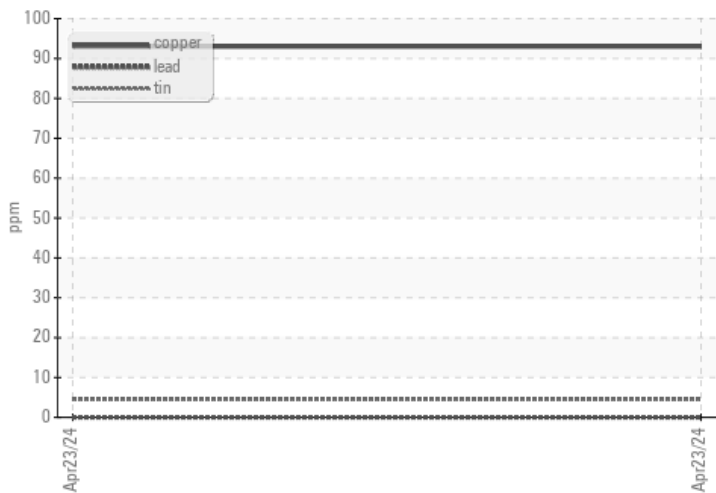


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

