

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR TA230 Sullivan TA230 149809 - Front Rear Axle

Sample No: LH0268747

Oil Type: LIEBHERR GEAR MF 80W



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

Sample Number	LH0268747	LH0264573	---	---
Sample Date	03 Jul 2024	01 Apr 2024	---	---
Machine Hours	1169	650	---	---
Oil Hours	1169	650	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	ABNORMAL	ATTENTION	---	---



Oil Condition

Visc @ 40°C	cSt	63.3	64.0	---	---
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Contamination

Water	%	NEG	NEG	---	---
Silicon	ppm	33	14	---	---
Sodium	ppm	23	23	---	---
Potassium	ppm	3	0	---	---



Wear Metals

Iron	ppm	143	131	---	---
Copper	ppm	59	43	---	---
Lead	ppm	1	0	---	---
Tin	ppm	3	3	---	---
Aluminum	ppm	11	4	---	---
Chromium	ppm	2	1	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	8	6	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	20	23	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	3580	3514	---	---
Magnesium	ppm	12	2	---	---
Zinc	ppm	1513	1460	---	---
Phosphorus	ppm	1356	1211	---	---
Barium	ppm	0	0	---	---
Boron	ppm	112	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 condition of the oil is acceptable for the time in service.

Depot: LIEBHERRNC

Unique No: 11114095

Signed: Sean Felton

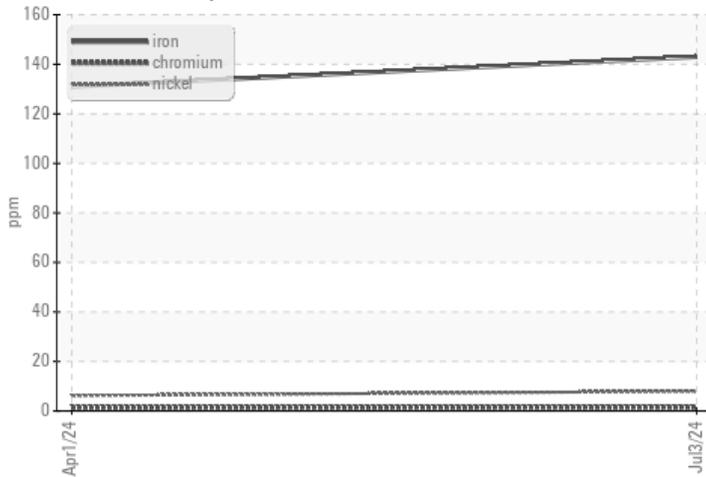
Report Date: 10 Jul 2024

Submitted By: SHERWOOD LUCAS

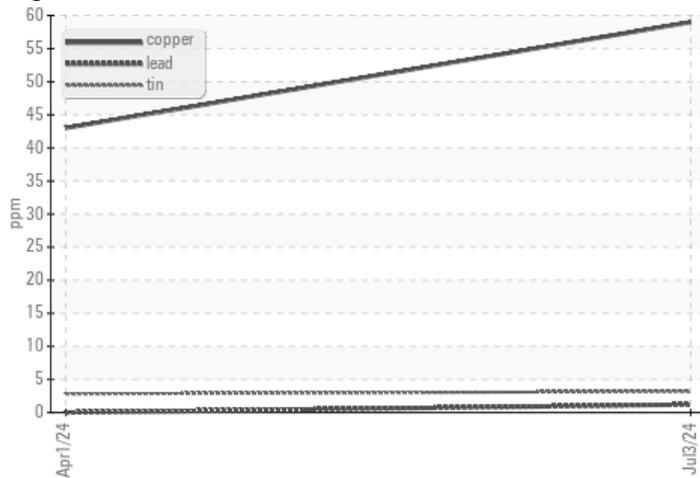


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

