

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR TA230 Sullivan TA230 149809 - Rear Rear Axle

Sample No: LH0268748

Oil Type: LIEBHERR GEAR MF 80W



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

Sample Number	LH0268748	LH0264572	---	---
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	63.8	64.8	---	---
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Contamination

Water	%	NEG	NEG	---	---
Silicon	ppm	15	15	---	---
Sodium	ppm	24	24	---	---
Potassium	ppm	1	0	---	---



Wear Metals

Iron	ppm	121	149	---	---
Copper	ppm	56	45	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	3	3	---	---
Aluminum	ppm	5	4	---	---
Chromium	ppm	1	2	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	9	7	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	21	24	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	3580	3402	---	---
Magnesium	ppm	11	3	---	---
Zinc	ppm	1537	1421	---	---
Phosphorus	ppm	1333	1232	---	---
Barium	ppm	0	0	---	---
Boron	ppm	110	110	---	---

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.

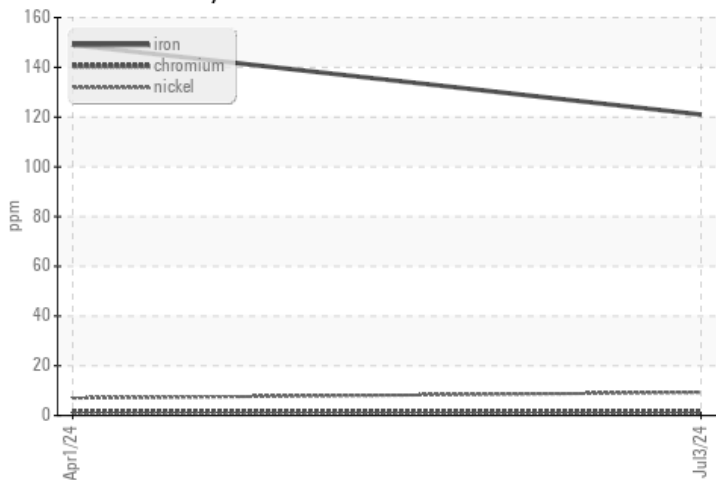
Depot: LIEBHERRNC
 Unique No: 11114093
 Signed: Sean Felton
 Report Date: 10 Jul 2024

Submitted By: SHERWOOD LUCAS

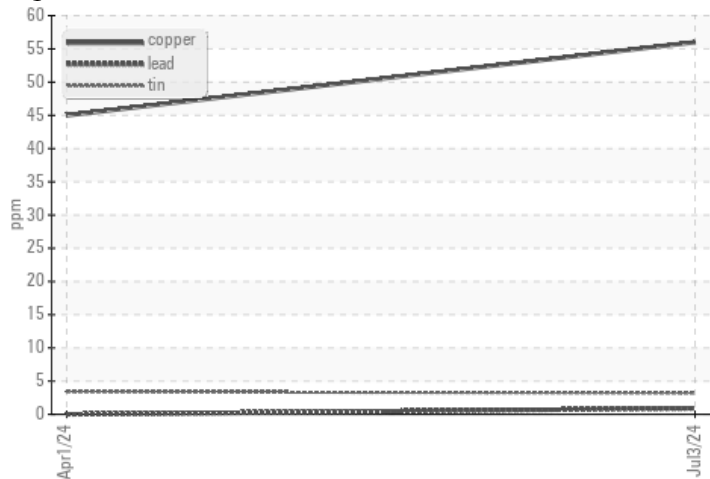


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

