

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L556 055501-1332 - Front Right Wheel Hub

Sample No: LH0254712

Oil Type: GEAR OIL LS 80W90



SAMPLE INFORMATION

Sample Number	LH0254712	LH0254856	LH0220836	---
Sample Date	24 Sep 2023	22 Feb 2023	12 Aug 2022	---
Machine Hours	6554	5381	4360	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

INTERSTATE POWER SYSTEMS

407 ADVENTURLAND DR NE
ALTOONA, IA

US 50009

Contact: DALTON JOHNSON

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F:



OIL CONDITION

Visc @ 40°C	cSt	193	180	175	---
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CONTAMINATION

Silicon	ppm	3	5	9	---
Sodium	ppm	0	4	2	---
Potassium	ppm	<1	<1	<1	---

Diagnosis

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	55	149	242	---
Copper	ppm	15	24	49	---
Lead	ppm	0	0	<1	---
Tin	ppm	<1	<1	2	---
Aluminum	ppm	<1	1	1	---
Chromium	ppm	<1	1	1	---
Molybdenum	ppm	2	28	55	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	2	7	13	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	10	18	45	---
Magnesium	ppm	<1	0	2	---
Zinc	ppm	13	18	36	---
Phosphorus	ppm	2266	2227	2335	---
Barium	ppm	2	0	0	---
Boron	ppm	0	<1	2	---

Depot: INTALT

Unique No: 10662049

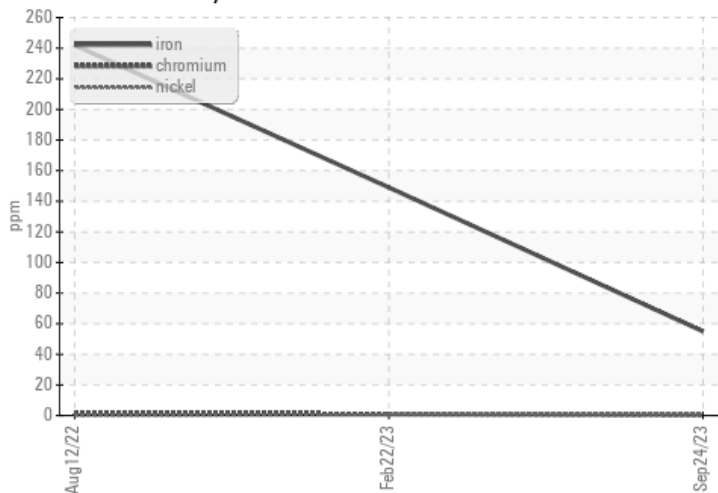
Signed: Sean Felton

Report Date: 27 Sep 2023

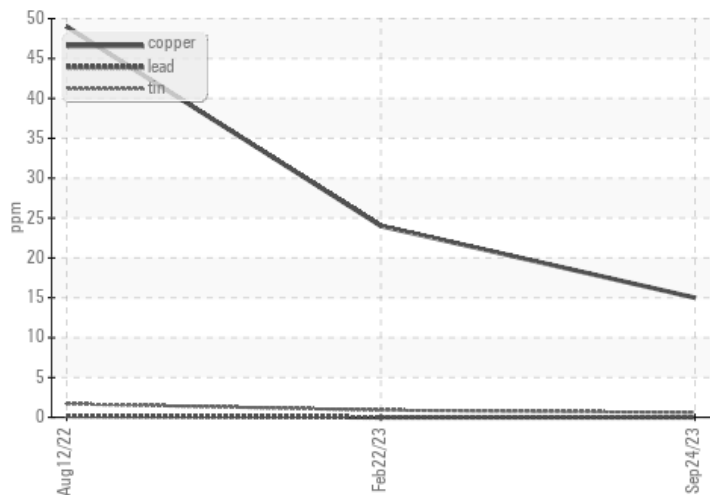


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

