

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L556 055501-1332 - Front Right Wheel Hub

Sample No: LH0254838

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0254838	LH0254712	LH0254856	LH0220836
Sample Date	06 Feb 2024	24 Sep 2023	22 Feb 2023	12 Aug 2022
Machine Hours	7216	6554	5381	4360
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	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	186	193	180	175



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	3	5	9
Sodium	ppm	1	0	4	2
Potassium	ppm	0	<1	<1	<1



WEAR METALS

Iron	ppm	58	55	149	242
Copper	ppm	8	15	24	49
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	<1	<1	1	1
Chromium	ppm	<1	<1	1	1
Molybdenum	ppm	14	2	28	55
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	2	7	13
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	20	10	18	45
Magnesium	ppm	1	<1	0	2
Zinc	ppm	8	13	18	36
Phosphorus	ppm	2306	2266	2227	2335
Barium	ppm	0	2	0	0
Boron	ppm	<1	0	<1	2

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.

Depot: INTALT

Unique No: 10910306

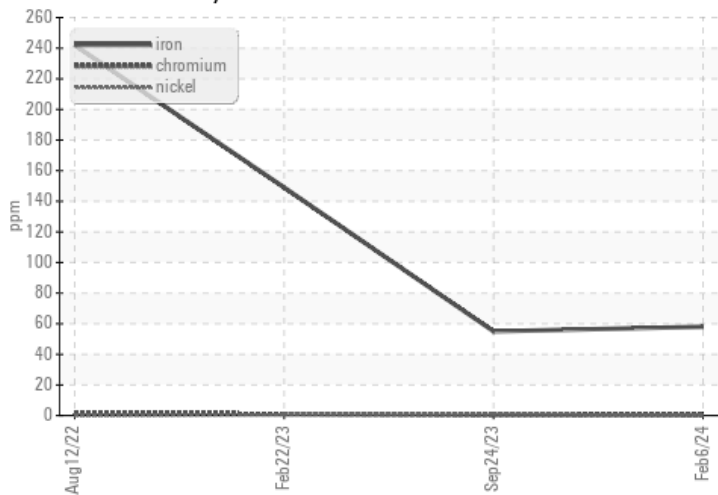
Signed: Wes Davis

Report Date: 04 Mar 2024

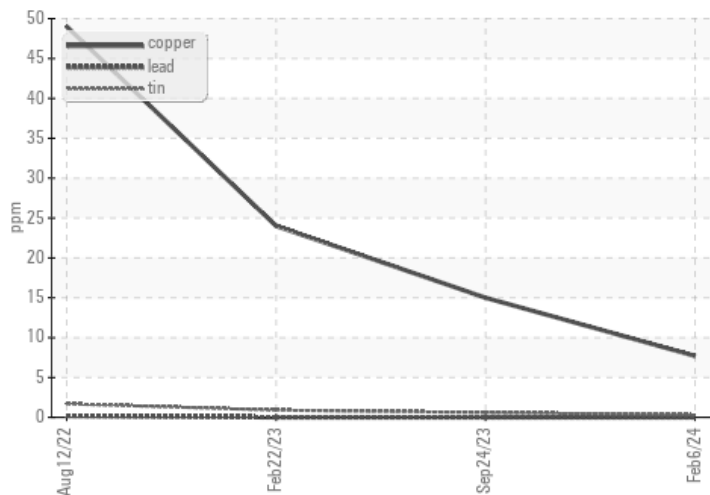


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

