

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L556 055501-1332 - Rear Differential

Sample No: LH0254837

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0254837	LH0254711	LH0254854	LH0220835
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	N/A	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	197	194	181	176



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	4	4	9
Sodium	ppm	2	0	3	3
Potassium	ppm	0	<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	44	42	91	173
Copper	ppm	9	22	27	83
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	1	3
Aluminum	ppm	<1	0	<1	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	5	2	14	33
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	1	<1
Manganese	ppm	2	2	6	11
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3	4	7	19
Magnesium	ppm	2	1	<1	<1
Zinc	ppm	3	14	13	36
Phosphorus	ppm	2360	2259	1652	2284
Barium	ppm	0	2	<1	0
Boron	ppm	0	0	1	<1

Depot: INTALT

Unique No: 10910309

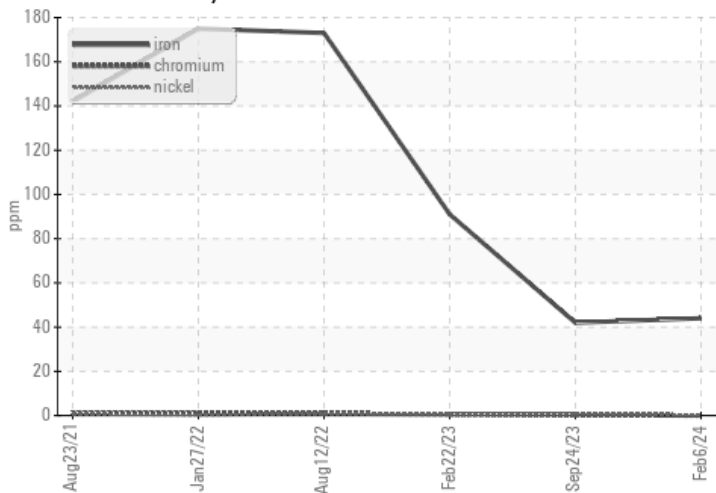
Signed: Wes Davis

Report Date: 04 Mar 2024

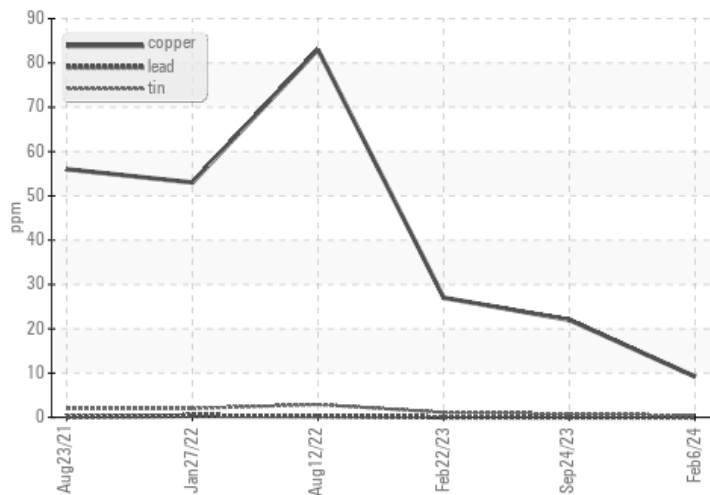


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

