

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L556 055501-1332 - Front Differential

Sample No: LH0254718

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0254718	LH0254855	LH0220834	LH0207903
Sample Date	24 Sep 2023	22 Feb 2023	12 Aug 2022	27 Jan 2022
Machine Hours	6554	5381	4360	3121
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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	194	180	175	177
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CONTAMINATION

Element	Unit	3	5	8	8
Silicon	ppm	3	5	8	8
Sodium	ppm	0	4	2	4
Potassium	ppm	<1	0	<1	0



WEAR METALS

Element	Unit	53	150	236	233
Iron	ppm	53	150	236	233
Copper	ppm	15	25	45	35
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	2	1
Aluminum	ppm	<1	1	1	2
Chromium	ppm	<1	1	1	2
Molybdenum	ppm	2	29	46	50
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	7	11	13
Vanadium	ppm	0	0	0	0



ADDITIVES

Element	Unit	9	18	42	45
Calcium	ppm	9	18	42	45
Magnesium	ppm	<1	<1	<1	2
Zinc	ppm	13	18	34	30
Phosphorus	ppm	2250	2255	2318	2573
Barium	ppm	2	0	0	0
Boron	ppm	0	<1	2	3

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: 10662050

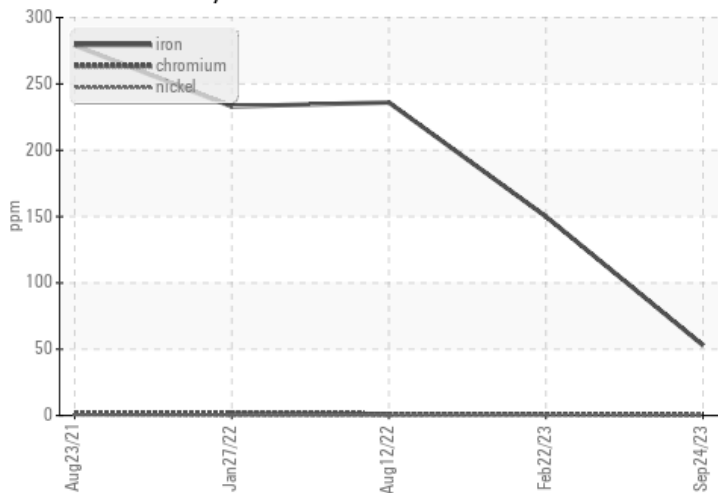
Signed: Sean Felton

Report Date: 27 Sep 2023

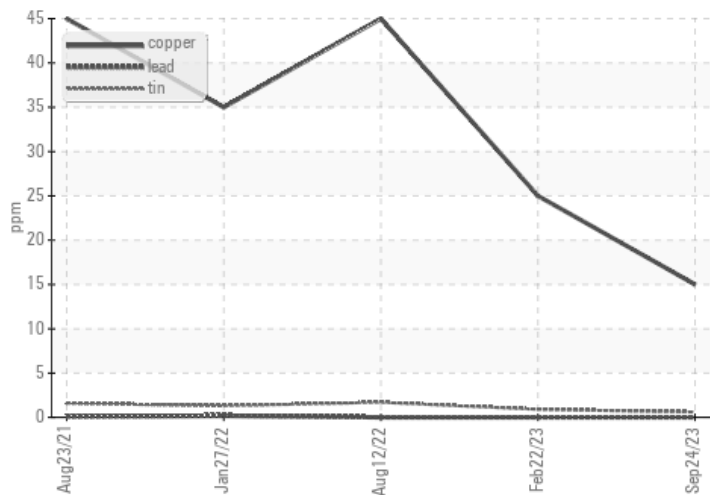


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

