

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A918 095565-1184 - Front Differential

Sample No: LH0268876

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0268876	LH0235818	LHMC130185	LHMC131348
Sample Date	24 Jan 2024	23 Sep 2022	19 Sep 2020	12 Dec 2019
Machine Hours	15862	9705	3571	600
Oil Hours	1000	0	1000	600
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

UNITED SCRAP

1545 S CICERO AVE
BURR RIDGE, IL
US 60527
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	130	124	178	54.9
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	<1	1	9
Sodium	ppm	2	1	3	20
Potassium	ppm	2	0	<1	1

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	17	15	7	7
Copper	ppm	2	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	<1	<1	<1	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	<1	2	0	0
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	1	1	4
Vanadium	ppm	0	0	0	0



ADDITIVES

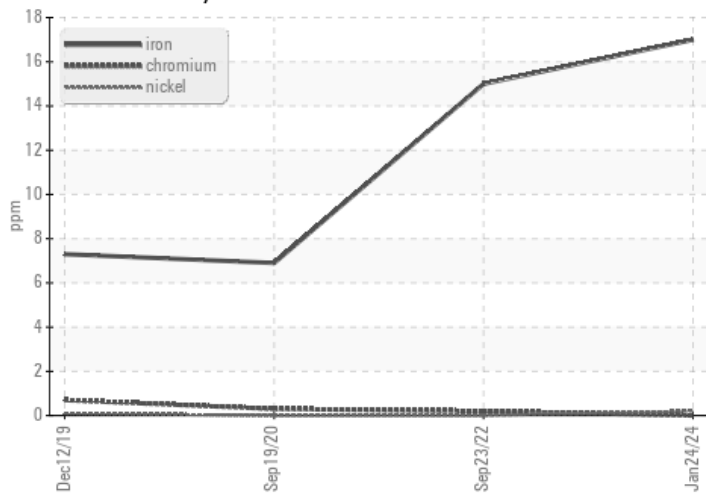
Calcium	ppm	84	88	208	3425
Magnesium	ppm	37	36	<1	10
Zinc	ppm	49	51	73	1320
Phosphorus	ppm	1764	1807	2253	1114
Barium	ppm	0	0	0	0
Boron	ppm	313	336	7	106

Depot: UNIBURIL
Unique No: 10884177
Signed: Don Baldrige
Report Date: 18 Feb 2024

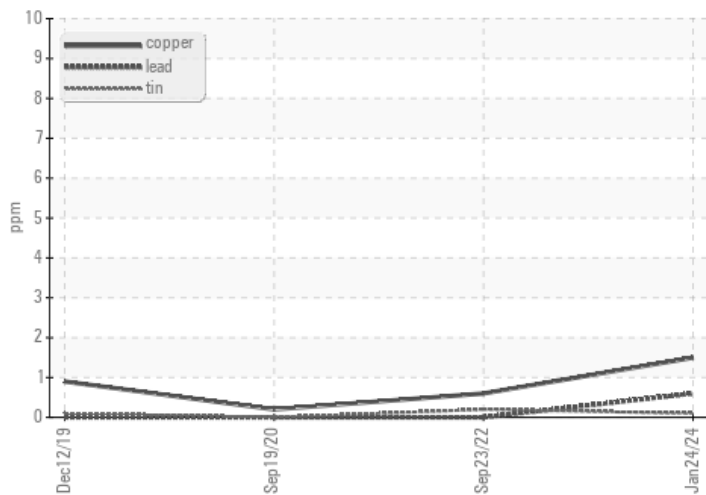


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

