

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A944 054454-194 - Rear Differential

Sample No: LH0264431

Oil Type: LIEBHERR GEAR BASIC 90 LS



UNITED STATES GYPSUM
 301 RILEY RD
 EAST CHICAGO, IN
 US 43612
 Contact: Service Manager



Sample Information

Sample Number	LH0264431	LHMC130558	LHMC96905	LHMC73508
Sample Date	29 Mar 2024	09 Jan 2020	26 Apr 2018	16 May 2016
Machine Hours	7425	3409	2587	986
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	137	136	134.8	139.4
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T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	<1	<1	<1
Sodium	ppm	1	<1	<1	0
Potassium	ppm	2	1	5	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.



Wear Metals

Iron	ppm	9	4	3	1
Copper	ppm	4	2	2	1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	0	0	0	0
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	0	0	0



Additives

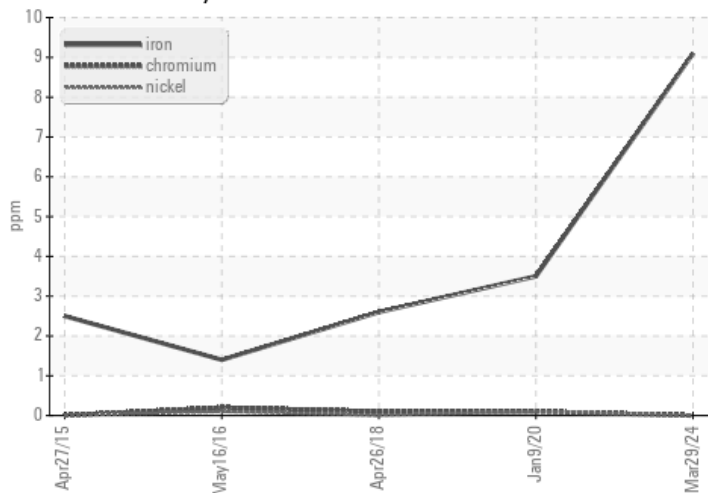
Calcium	ppm	0	5	5	5
Magnesium	ppm	0	0	0	0
Zinc	ppm	0	3	2	3
Phosphorus	ppm	2105	1831	1779	1470
Barium	ppm	11	13	10	56
Boron	ppm	308	262	234	226

Depot: UNIEASLH
 Unique No: 10957223
 Signed: Sean Felton
 Report Date: 05 Apr 2024

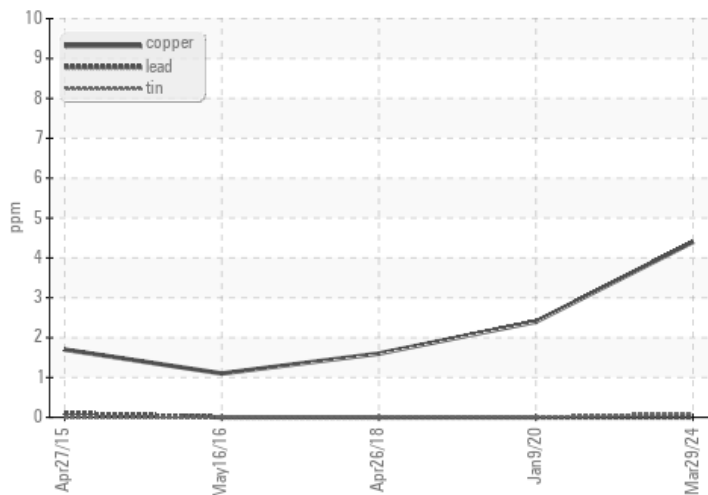


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

