

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 117421-1217 - Front Differential

Sample No: LH0267285

Oil Type: LIEBHERR GEAR BASIC 90 LS



TT & E IRON
 1529 WEST GARNER RD
 GARNER, NC
 US 27529
 Contact: MICHAEL STANCIL
 culaterprowler@aol.com
 T: (919)524-4326
 F:



SAMPLE INFORMATION

Sample Number	LH0267285	LH0247842	LH0229340	LH0217518
Sample Date	26 Dec 2023	24 Feb 2023	13 Jun 2022	01 Mar 2022
Machine Hours	5377	3454	1958	1109
Oil Hours	0	1000	500	1190
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	● 137	● 141	● 144	● 147
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 3	● 4	● 3	● 3
Sodium	ppm	● 2	● 1	● 4	● 2
Potassium	ppm	● 2	● 2	● 2	● 2



WEAR METALS

Iron	ppm	● 5	● 5	● 12	● 2
Copper	ppm	● 34	● 17	● 7	● 5
Lead	ppm	● 0	● 0	● 0	● <1
Tin	ppm	● <1	● 0	● 0	● <1
Aluminum	ppm	● <1	● <1	● <1	● <1
Chromium	ppm	● 0	● 0	● <1	● 0
Molybdenum	ppm	● 0	● 1	● 1	● 1
Nickel	ppm	● <1	● 0	4	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	1	<1
Manganese	ppm	● <1	● <1	● <1	● <1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	● 50	● 70	● 43	● 41
Magnesium	ppm	● 8	● 5	● 5	● 5
Zinc	ppm	● 43	● 49	● 28	● 19
Phosphorus	ppm	● 746	● 707	● 762	● 688
Barium	ppm	● 182	● 183	● 175	● 168
Boron	ppm	● 4	● 4	● 6	● 8

Diagnosis

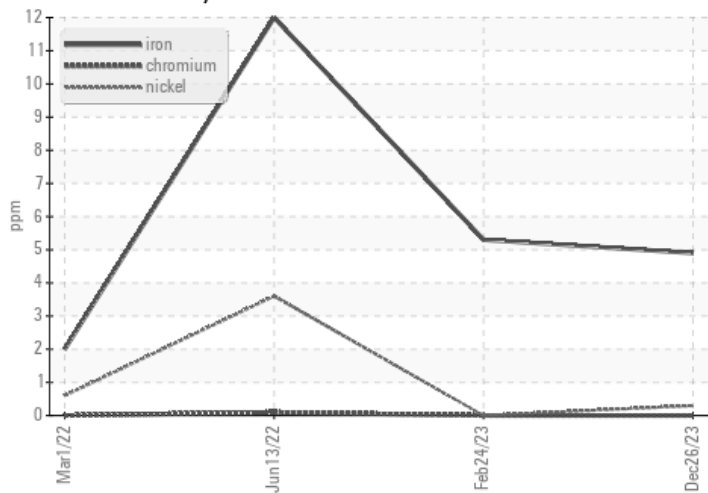
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.

Depot: TTENEW
 Unique No: 10817111
 Signed: Don Baldrige
 Report Date: 05 Jan 2024

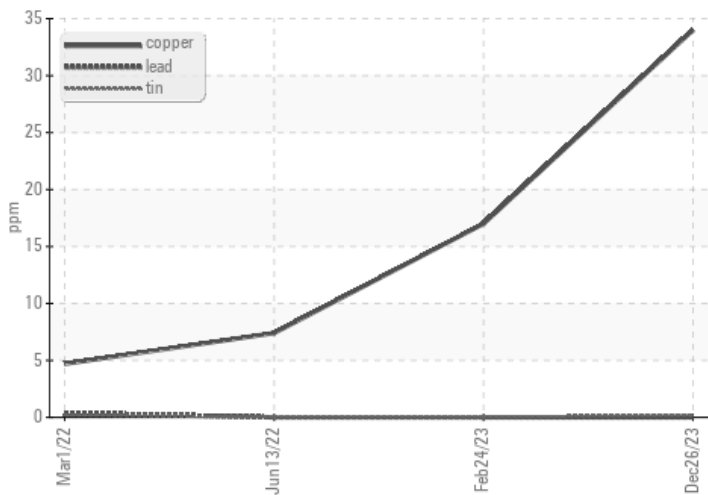


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

