

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 1204-74217 - Front Left Wheel Hub

Sample No: LH0268897

Oil Type: LIEBHERR GEAR BASIC 90 LS



MIDDLE RIVER MARINE
 1771 SOUTH TORRENCE AVE
 CHICAGO, IL
 US 60617
 Contact: Scott Molitor
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 T:
 F:



Sample Information

Sample Number	LH0268897	LHMC121035	LHMC92420	LHMC80518
Sample Date	09 Apr 2024	10 Aug 2017	31 Mar 2017	24 May 2016
Machine Hours	14693	8752	7383	4556
Oil Hours	1000	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL



Oil Condition

Visc @ 40°C	cSt	149	163.4	284.3	174.6
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	1	2	3
Sodium	ppm	<1	<1	1	2
Potassium	ppm	0	10	1	2



Wear Metals

Iron	ppm	59	105	152	296
Copper	ppm	5	11	17	31
Lead	ppm	0	0	<1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	1	2
Chromium	ppm	0	<1	1	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	<1	1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	2	5
Vanadium	ppm	0	0	0	<1



Additives

Calcium	ppm	12	10	8	11
Magnesium	ppm	3	<1	0	2
Zinc	ppm	1	13	11	26
Phosphorus	ppm	948	1165	428	1004
Barium	ppm	0	18	38	284
Boron	ppm	26	198	2	4

Diagnosis

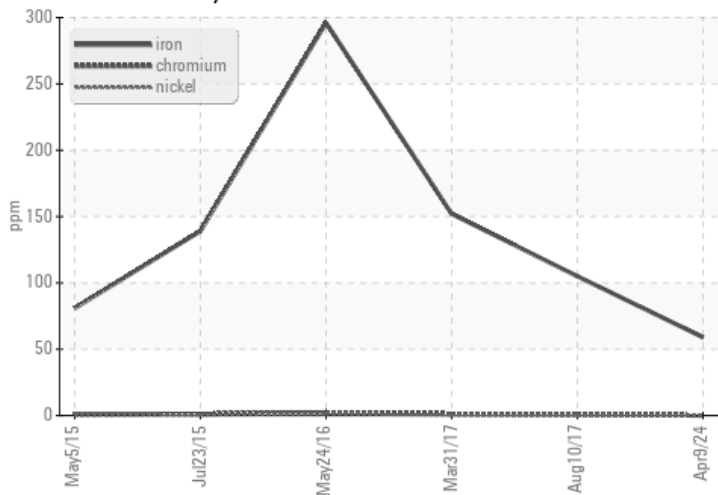
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: MIDCHIL
 Unique No: 11004473
 Signed: Don Baldrige
 Report Date: 01 May 2024

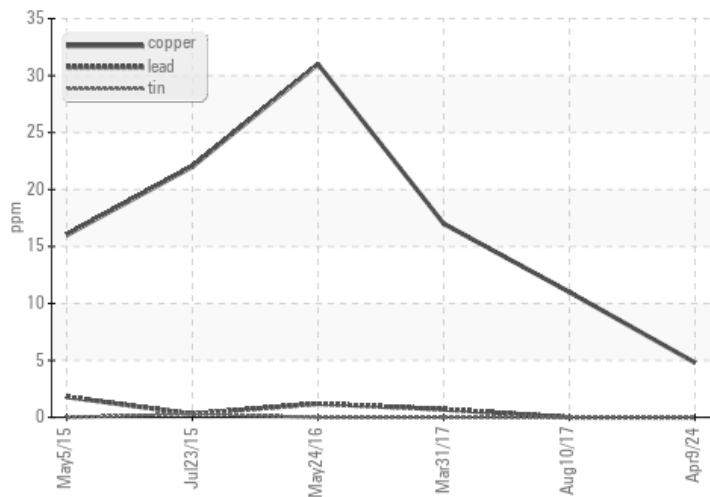


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

