

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 121854-1253 - Front Right Wheel Hub

Sample No: LH0264394

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



AMERICAN STATE EQUIPMENT CO.
 2400 NORTH 14TH AVENUE
 WAUSAU, WI
 US 54401
 Contact: CHRIS BARTNIK
 cbartnik@amstate.com
 T: (715)675-6900
 F: (715)675-9748



SAMPLE INFORMATION

Sample Number	LH0264394	LH0220809	LH0235811	LH0217772
Sample Date	04 Aug 2023	05 Dec 2022	03 Aug 2022	25 Apr 2022
Machine Hours	6000	3974	3014	1795
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	131	137	119	124
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CONTAMINATION

Silicon	ppm	5	2	6	3
Sodium	ppm	6	4	5	1
Potassium	ppm	4	<1	2	0



WEAR METALS

Iron	ppm	161	98	50	18
Copper	ppm	4	3	4	3
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	1	3	3	0
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	<1	<1	1	1
Nickel	ppm	0	0	0	0
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	48	54	80	182
Magnesium	ppm	7	9	16	0
Zinc	ppm	9	11	23	32
Phosphorus	ppm	765	631	654	785
Barium	ppm	0	0	0	0
Boron	ppm	4	8	8	22

Diagnosis

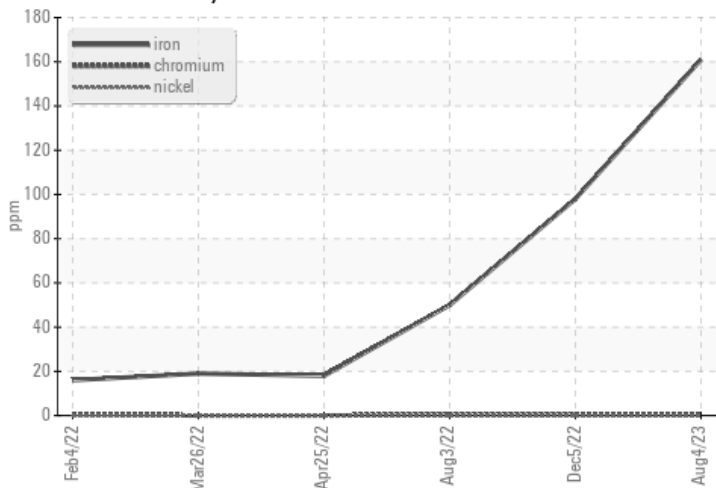
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10604511
 Signed: Sean Felton
 Report Date: 16 Aug 2023

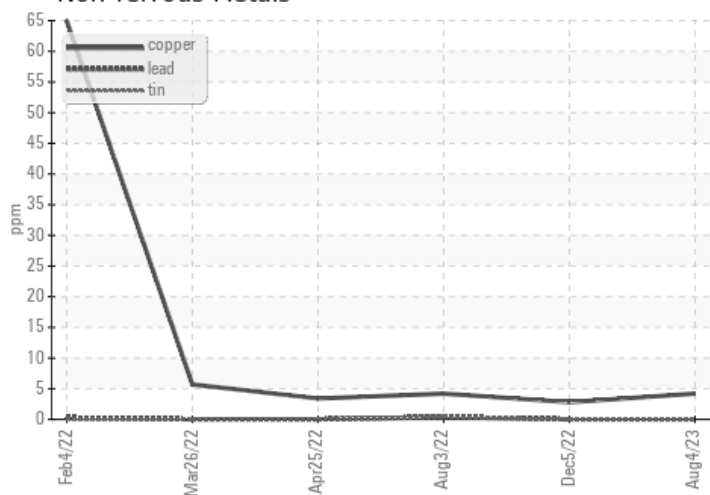


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

