

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 121854-1253 - Front Left Wheel Hub

Sample No: LH0267091

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	LH0267091	LH0272745	LH0264395	LH0220806
Sample Date	17 May 2024	02 Jan 2024	04 Aug 2023	05 Dec 2022
Machine Hours	8113	6976	6007	3974
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	116	122	132	138
-------------	-----	-----	-----	-----	-----



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	2	3	1
Sodium	ppm	5	<1	8	3
Potassium	ppm	3	2	4	<1



Wear Metals

Iron	ppm	73	55	104	70
Copper	ppm	2	2	5	2
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	<1	2	1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	1	<1	<1
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	1	1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	42	40	66	54
Magnesium	ppm	4	5	10	8
Zinc	ppm	16	0	7	10
Phosphorus	ppm	906	786	1047	631
Barium	ppm	0	0	0	0
Boron	ppm	7	2	8	9

Diagnosis

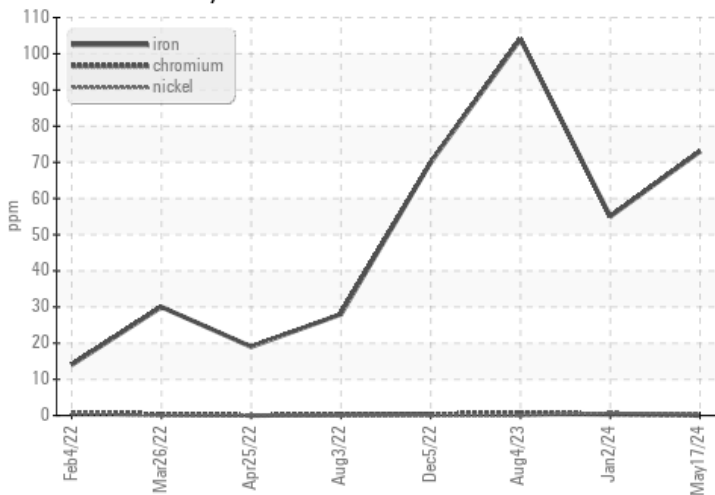
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 11049891
 Signed: Sean Felton
 Report Date: 30 May 2024

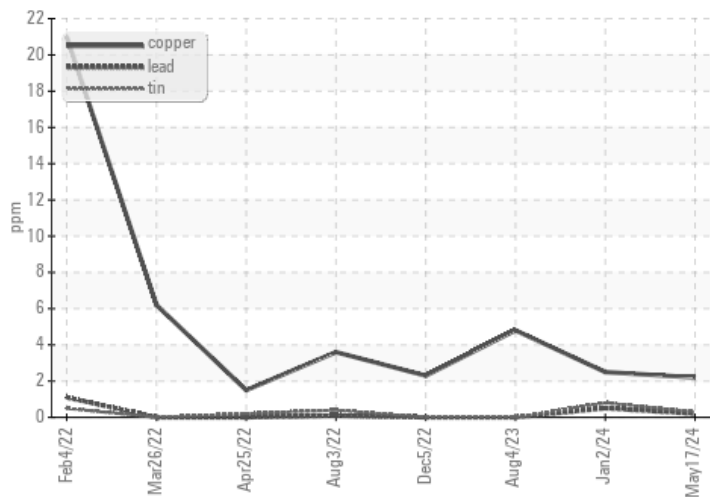


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

