

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 121854-1253 - Transmission (Manual)

Sample No: LH0264391

Oil Type: CHEVRON DELO LE 5W40



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	LH0264391	LH0220804	LH0220622	LH0217771
Sample Date	08 Aug 2023	05 Dec 2022	03 Aug 2022	25 Apr 2022
Machine Hours	6007	3974	3014	1795
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	42.8	44.7	45.8	49.0
-------------	-----	------	------	------	------



CONTAMINATION

Silicon	ppm	6	4	5	5
Sodium	ppm	2	5	10	10
Potassium	ppm	3	1	2	0



WEAR METALS

Iron	ppm	21	16	16	13
Copper	ppm	18	21	31	31
Lead	ppm	0	<1	<1	0
Tin	ppm	1	2	1	2
Aluminum	ppm	41	32	47	15
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	4	5	5	4
Nickel	ppm	0	<1	0	<1
Titanium	ppm	92	88	78	73
Silver	ppm	0	0	<1	0
Manganese	ppm	6	5	12	14
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	1405	1533	1441	1981
Magnesium	ppm	620	608	505	344
Zinc	ppm	1140	1184	1035	1197
Phosphorus	ppm	1049	1023	945	970
Barium	ppm	0	0	0	0
Boron	ppm	179	159	155	154

Diagnosis

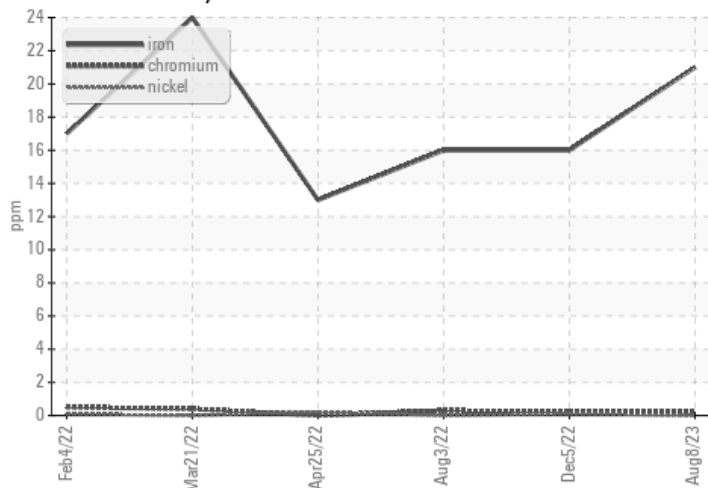
The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10604551
 Signed: Jonathan Hester
 Report Date: 16 Aug 2023

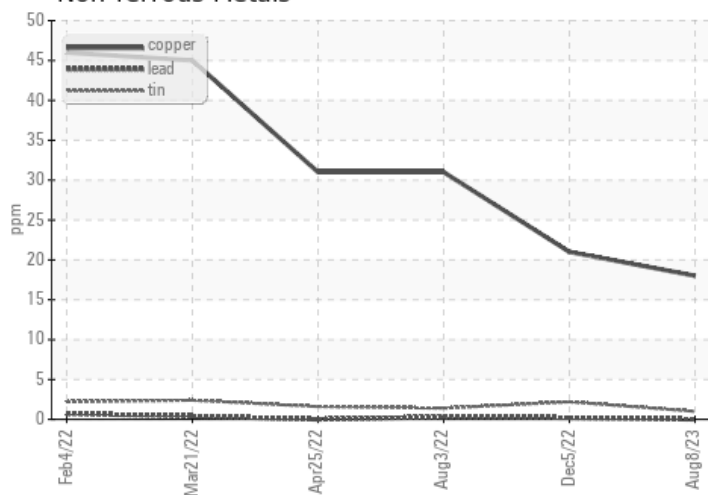


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

