

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 121854-1253 - Swing Drive

Sample No: LH0264393

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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SAMPLE INFORMATION

Sample Number	LH0264393	LH0236120	LH0220803	LH0220620
Sample Date	04 Aug 2023	20 Jan 2023	05 Dec 2022	03 Aug 2022
Machine Hours	6007	1172	3974	3014
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	134	142	142	130
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CONTAMINATION

Silicon	ppm	5	1	2	2
Sodium	ppm	1	<1	<1	2
Potassium	ppm	3	2	3	3



WEAR METALS

Iron	ppm	852	57	367	48
Copper	ppm	162	57	61	61
Lead	ppm	<1	0	<1	<1
Tin	ppm	5	2	2	2
Aluminum	ppm	1	0	3	2
Chromium	ppm	7	<1	3	<1
Molybdenum	ppm	<1	<1	<1	2
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	6	<1	3	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	38	43	45	98
Magnesium	ppm	5	4	6	16
Zinc	ppm	75	44	33	48
Phosphorus	ppm	1053	1240	688	827
Barium	ppm	0	0	0	0
Boron	ppm	14	9	14	35

Diagnosis

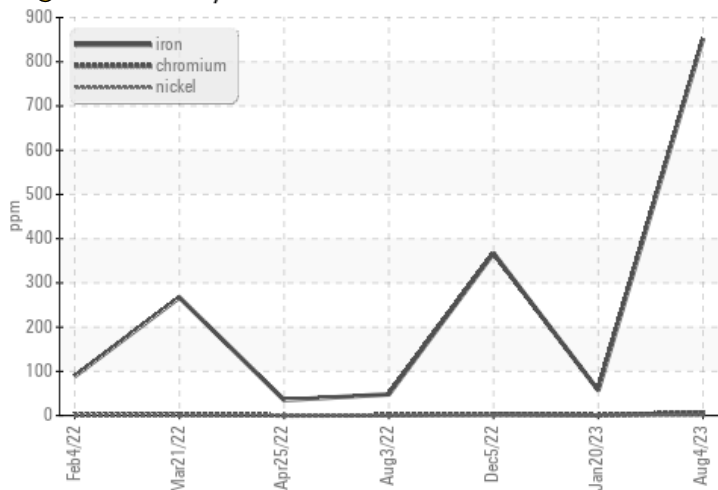
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10604530
 Signed: Sean Felton
 Report Date: 16 Aug 2023

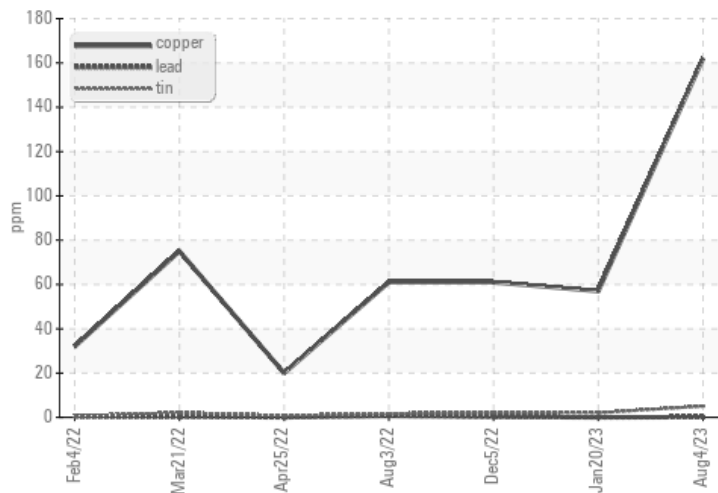


GRAPHS

● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

