

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 121854-1253 - Transmission (Manual)

Sample No: LH0272495

Oil Type: CHEVRON DELO LE 5W40



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SAMPLE INFORMATION

Sample Number	LH0272495	LH0264391	LH0220804	LH0220622
Sample Date	02 Jan 2024	08 Aug 2023	05 Dec 2022	03 Aug 2022
Machine Hours	6976	6007	3974	3014
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	44.7	42.8	44.7	45.8
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	6	4	5
Sodium	ppm	3	2	5	10
Potassium	ppm	1	3	1	2



WEAR METALS

Iron	ppm	10	21	16	16
Copper	ppm	9	18	21	31
Lead	ppm	0	0	<1	<1
Tin	ppm	0	1	2	1
Aluminum	ppm	22	41	32	47
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	3	4	5	5
Nickel	ppm	0	0	<1	0
Titanium	ppm	87	92	88	78
Silver	ppm	0	0	0	<1
Manganese	ppm	2	6	5	12
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	1286	1405	1533	1441
Magnesium	ppm	627	620	608	505
Zinc	ppm	1099	1140	1184	1035
Phosphorus	ppm	903	1049	1023	945
Barium	ppm	0	0	0	0
Boron	ppm	146	179	159	155

Diagnosis

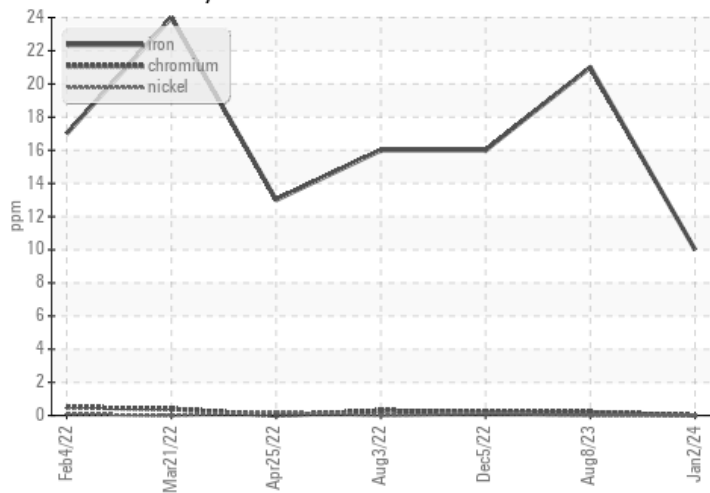
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10830304
 Signed: Don Baldrige
 Report Date: 15 Jan 2024

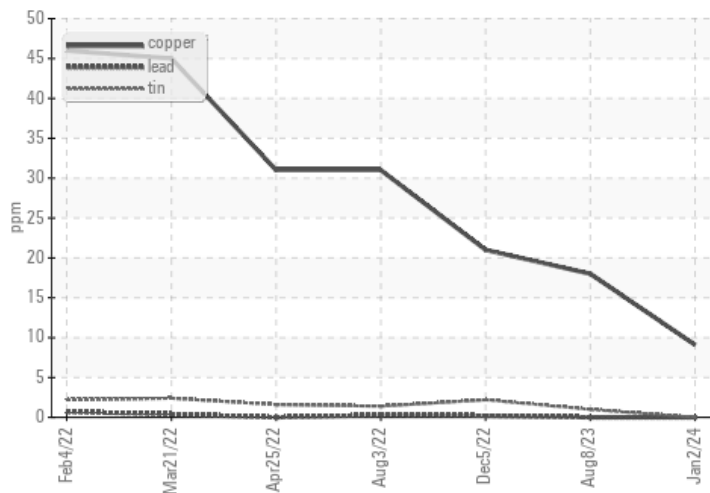


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

