

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 107076-1216 - Transmission (Manual)

Sample No: LH0254695

Oil Type: GEAR OIL SAE 80W90



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SAMPLE INFORMATION

Sample Number	LH0254695	LH0245019	LH0236226	LH0207877
Sample Date	08 Jun 2023	10 Mar 2023	17 Oct 2022	20 Apr 2022
Machine Hours	8928	9953	9029	8173
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	69.2	45.1	44.8	40.7
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CONTAMINATION

Element	ppm	3	4	4	13
Silicon	ppm	3	4	4	13
Sodium	ppm	4	4	9	17
Potassium	ppm	1	3	1	0



WEAR METALS

Element	ppm	13	15	18	59
Iron	ppm	13	15	18	59
Copper	ppm	13	13	20	43
Lead	ppm	0	<1	<1	2
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	8	13	16	31
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	5	7	6	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	17	33	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	3	4	5	11
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Element	ppm	822	1477	1621	2118
Calcium	ppm	822	1477	1621	2118
Magnesium	ppm	316	557	508	402
Zinc	ppm	542	934	821	808
Phosphorus	ppm	855	834	735	780
Barium	ppm	0	0	0	0
Boron	ppm	69	132	99	93

Diagnosis

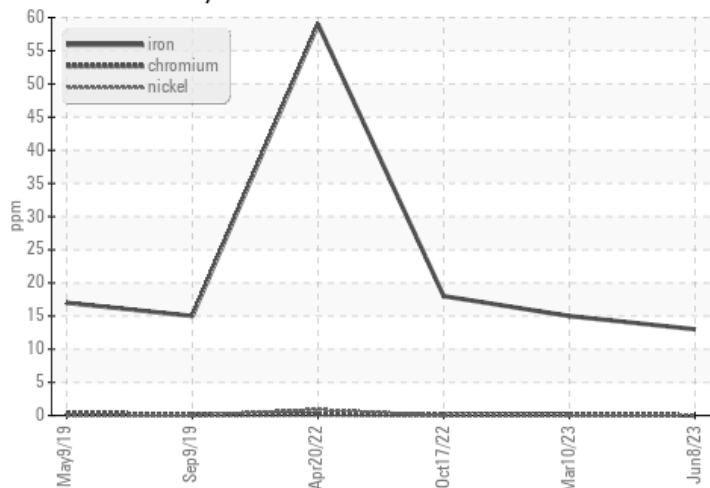
The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. Confirm oil type. The condition of the fluid is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10535791
 Signed: Don Baldrige
 Report Date: 30 Jun 2023

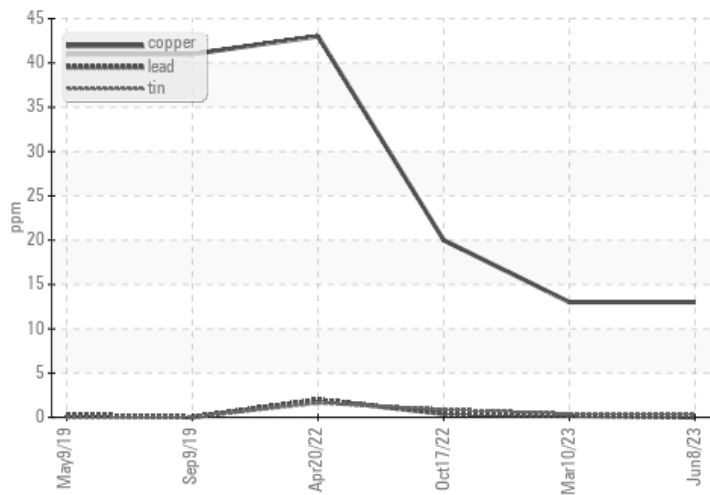


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

