

WEAR SEVERE CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id LIEB Componen Splitte Fluid (not p

LIEBHERR LH30M 140292-1253

Component Splitter Box

{not provided} (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 80W90 Gear Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

WEAR

Copper ppm levels are severe. Iron ppm levels are abnormal. Bearing and/or bushing wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

CONTAMINATION

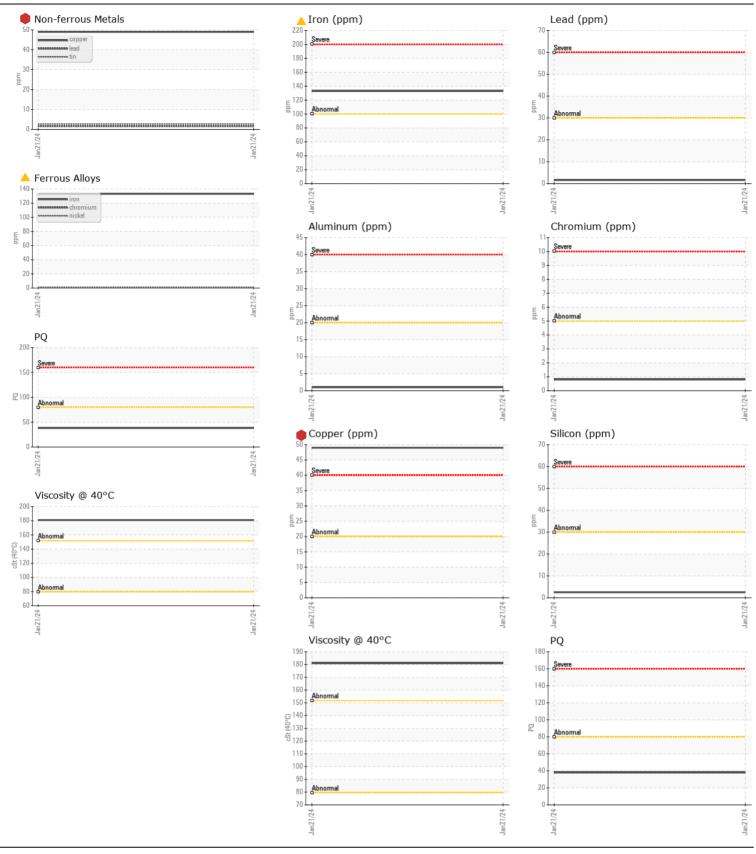
There is no indication of any contamination in the oil.

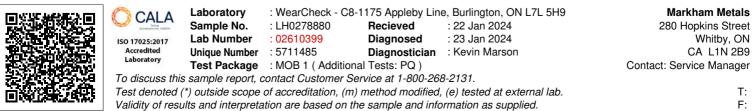
FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0278880		
Sample Date		Client Info		21 Jan 2024		
Machine Age	hrs	Client Info		1531		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				SEVERE		
DO			00			
PQ		ASTM D8184*	>80	38		
Iron	ppm	ASTM D5185(m)	>100	▲ 133		
Chromium	ppm	ASTM D5185(m)	>5	<1		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	. 00	0		
Aluminum	ppm	ASTM D5185(m)	>20	1		
Lead	ppm	ASTM D5185(m)	>30	2 ● 49		
Copper	ppm	ASTM D5185(m)	>20	· ·		
Tin	ppm	ASTM D5185(m)	>10	3		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>30	2		
Potassium	ppm	ASTM D5185(m)	>20	3		
Water		WC Method	>0.1	NEG		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.1	NEG		
Sodium			. 05	~		
Boron	ppm	ASTM D5185(m) ASTM D5185(m)	>25	6 8		
Barium	ppm	. ,				
	ppm	ASTM D5185(m) ASTM D5185(m)		6 0		
Molybdenum	ppm	()				
Manganese Magnesium	ppm	ASTM D5185(m) ASTM D5185(m)		2 1		
Calcium	ppm	ASTM D5185(m)		33		
Phosphorus	ppm	ASTM D5185(m)		33 2172		
Zinc	ppm	ASTM D5185(m)		52		
Sulfur	ppm	ASTM D5185(m)		52 24448		
	ppm cSt					
Visc @ 40°C	cSt	ASTM D7279(m)		181		

Submitted By: ?





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