



LIEBHERR LH50M 129938-1216

Component Swing Drive

LIEBHERR GEAR BASIC 90 LS (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

W	R

All component wear rates are normal.

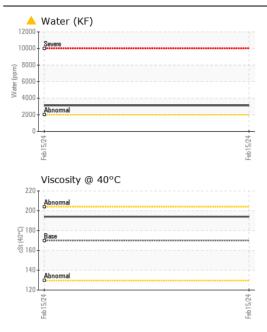
CONTAMINATION

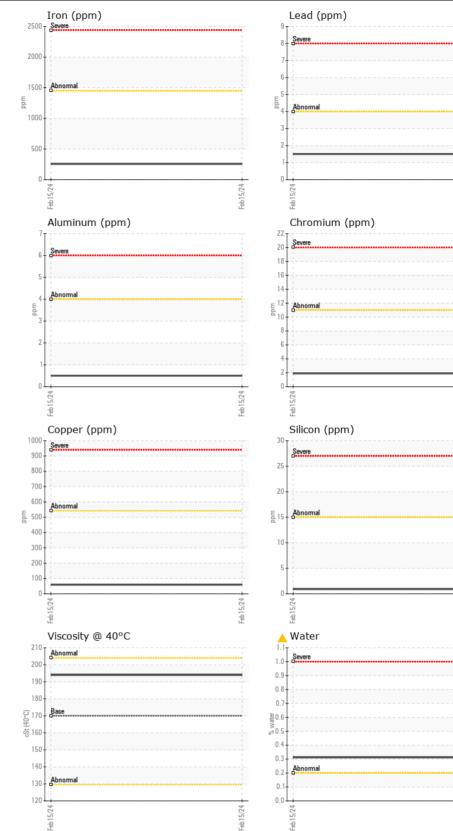
There is a moderate concentration of water present in the oil.

FLUID		
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The oil is no longer serviceable due to the presence of contaminants.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0284362		
Sample Date		Client Info		15 Feb 2024		
Machine Age	hrs	Client Info		3030		
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				ABNORMAL		
Iron	ppm	ASTM D5185(m)	>1450	255		
Chromium	ppm	ASTM D5185(m)	>11	2		
Nickel	ppm	ASTM D5185(m)	>3	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>4	<1		
Lead	ppm	ASTM D5185(m)	>4	2		
Copper	ppm	ASTM D5185(m)	>542	59		
Tin	ppm	ASTM D5185(m)	>38	4		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>15	<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>0.2	<b>0.312</b>		
ppm Water	ppm	ASTM D6304*	>2000	<b>A</b> 3123		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	VLITE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.2	<b>.2%</b>		
Sodium	ppm	ASTM D5185(m)		2		
Boron	ppm	ASTM D5185(m)	0	1		
Barium	ppm	ASTM D5185(m)	0	<1		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)	0	2		
Magnesium	ppm	ASTM D5185(m)	<1	1		
Calcium	ppm	ASTM D5185(m)	<1	6		
Phosphorus	ppm	ASTM D5185(m)	2143	2212		
Zinc	ppm	ASTM D5185(m)	<1	19		
Sulfur	ppm	ASTM D5185(m)	23468	25321		
Visc @ 40°C	cSt	ASTM D7279(m)	170	194		







 Iso 17025:2017
 Lab Number
 : 02616738
 Tested
 : 21 Feb 2024

 Accredited Laboratory
 Unique Number
 : 5733848
 Diagnosed
 : 21 Feb 2024 - Kevin Marson

 To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

 Validity of results and interpretation are based on the sample and information as supplied.

: LH0284362

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Received

: 20 Feb 2024

METAUX 139 INC. 86 RTE MARIE-VICTORIN PIERREVILLE, QC CA J0G 1J0 Contact: Service Manager

Feb15/24

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CALA

Laboratory

Sample No.

T: F: