

WEAR	NORMAL
CONTAMINATION	
FLUID CONDITION	NORMAL

Machine Id LIEBHERR LH40M 156305-1215

Transmission (Manual)

TDTO FLUID SAE 20 (--- GAL)

RECOMMENDATION	
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Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

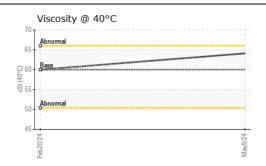
There is no indication of any contamination in the fluid.

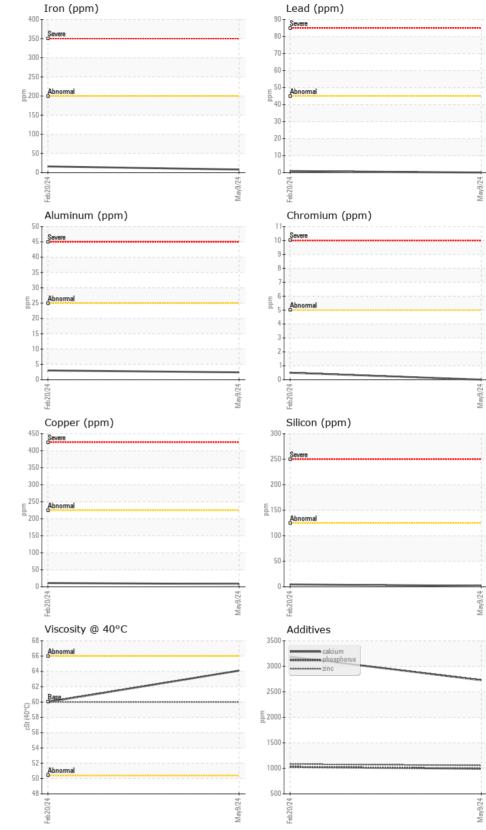
## FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH	LH0278469	
Sample Date		Client Info		09 May 2024	20 Feb 2024	
Machine Age	hrs	Client Info		1010	536	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		None	None	
Sample Status				NORMAL	NORMAL	
				•	40	
Iron	ppm	ASTM D5185(m)	>200	8	16	
Chromium	ppm	ASTM D5185(m)	>5	0	<1	
Nickel	ppm	ASTM D5185(m)	>5	0	<1	
Titanium	ppm	ASTM D5185(m)	7	0	0	
Silver	ppm	ASTM D5185(m)	>7	0	0	
Aluminum	ppm	ASTM D5185(m)	>25	2	3	
Lead	ppm	ASTM D5185(m)	>45	0	<1	
Copper	ppm	ASTM D5185(m)	>225	8	11	
Tin	ppm	ASTM D5185(m)	>10	0	<1	
Vanadium	ppm	ASTM D5185(m)	NONE	0	0	
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Vicual*				
	304141	Visual*	NONE	NONE	NONE	
Silicon		ASTM D5185(m)	>125	2	5	
	ppm					
Silicon	ppm	ASTM D5185(m)	>125	2	5	
Silicon Potassium	ppm	ASTM D5185(m) ASTM D5185(m)	>125 >20	2 2	5 3	
Silicon Potassium Water	ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method	>125 >20 >0.1	2 2 NEG	5 3 NEG	
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual*	>125 >20 >0.1 NONE	2 2 NEG NONE	5 3 NEG NONE	   
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual*	>125 >20 >0.1 NONE NONE	2 2 NEG NONE NONE	5 3 NEG NONE NONE	  
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual*	>125 >20 >0.1 NONE NONE NONE	2 2 NEG NONE NONE NONE	5 3 NEG NONE NONE VLITE	    
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>125 >20 >0.1 NONE NONE NONE NORML	2 2 NEG NONE NONE NONE NORML	5 3 NEG NONE NONE VLITE NORML	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>125 >20 >0.1 NONE NONE NORML NORML	2 2 NEG NONE NONE NORE NORML NEG	5 3 NEG NONE NONE VLITE NORML NORML NEG	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* Visual*	>125 >20 >0.1 NONE NONE NORML NORML >0.1	2 2 NEG NONE NONE NORML NORML NEG 28	5 3 NEG NONE NONE VLITE NORML NORML NEG 44	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>125 >20 >0.1 NONE NONE NORML NORML	2 2 NEG NONE NONE NORE NORML NEG	5 3 NEG NONE NONE VLITE NORML NORML NEG 44	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>125 >20 >0.1 NONE NONE NORML NORML >0.1	2 2 NEG NONE NONE NORML NORML NEG 28 35 <1	5 3 NEG NONE VLITE NORML NORML NEG 44 3 <1	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm scalar scalar scalar scalar scalar scalar gpm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>125 >20 >0.1 NONE NORME NORML >0.1	2 2 NEG NONE NONE NORML NORML NEG 28 35 <1 0	5 3 NEG NONE NONE VLITE NORML NEG 44 3 <1 0	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>125 >20 >0.1 NONE NORME NORML >0.1 37 5	2 2 NEG NONE NONE NORML NORML NEG 28 35 <1 0 9	5 3 NEG NONE VLITE NORML NORML NEG 44 3 <1 0 11	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>125 >20 >0.1 NONE NONE NORML NORML >0.1	2 2 NEG NONE NONE NORML NORML NEG 28 35 <1 0 9 8	5 3 NEG NONE NONE VLITE NORML NEG 44 3 <1 0	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	<ul> <li>&gt;125</li> <li>&gt;20</li> <li>&gt;0.1</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;0.1</li> <li>37</li> <li>7</li> <li>5</li> <li>40</li> <li>2650</li> </ul>	2 2 NEG NONE NONE NORML NORML NEG 28 35 <1 0 9 8 2727	5 3 NEG NONE VLITE NORML NORML NEG 44 3 <1 0 11 9 3189	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	<ul> <li>&gt;125</li> <li>&gt;20</li> <li>&gt;0.1</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;0.1</li> <li>37</li> <li>7</li> <li>5</li> <li>40</li> <li>2650</li> <li>1050</li> </ul>	2 2 NEG NONE NONE NORML NORML NEG 28 35 <1 0 9 8 2727 991	5 3 NEG NONE VLITE NORML NORML NEG 44 3 <1 0 11 9 3189 1028	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>125 >20 >0.1 NONE NONE NORML >0.1 37 7 5 40 2650 1050 1075	2 2 NEG NONE NONE NORML NORML NEG 28 35 <1 0 9 8 2727 991 1056	5 3 NEG NONE VLITE NORML NORML NEG 44 3 <1 0 11 9 3189 1028 1084	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	<ul> <li>&gt;125</li> <li>&gt;20</li> <li>&gt;0.1</li> <li>NONE</li> <li>NORME</li> <li>NORML</li> <li>&gt;0.1</li> <li>37</li> <li>7</li> <li>5</li> <li>40</li> <li>2650</li> <li>1050</li> </ul>	2 2 NEG NONE NONE NORML NORML NEG 28 35 <1 0 9 8 2727 991	5 3 NEG NONE VLITE NORML NORML NEG 44 3 <1 0 11 9 3189 1028	

Submitted By: Vincent Blanchette





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Urban Mine** CALA Sample No. Received : 14 May 2024 72 Rothwell Rd. :LH Lab Number : 02635400 Tested Winnipeg, MB : 14 May 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5776553 Diagnosed : 14 May 2024 - Wes Davis CA R3P 2H7 Test Package : MOB 1 Contact: SERVICE 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. T: (204)774-0192 Validity of results and interpretation are based on the sample and information as supplied.

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