

**WEAR** CONTAMINATION **FLUID CONDITION** 

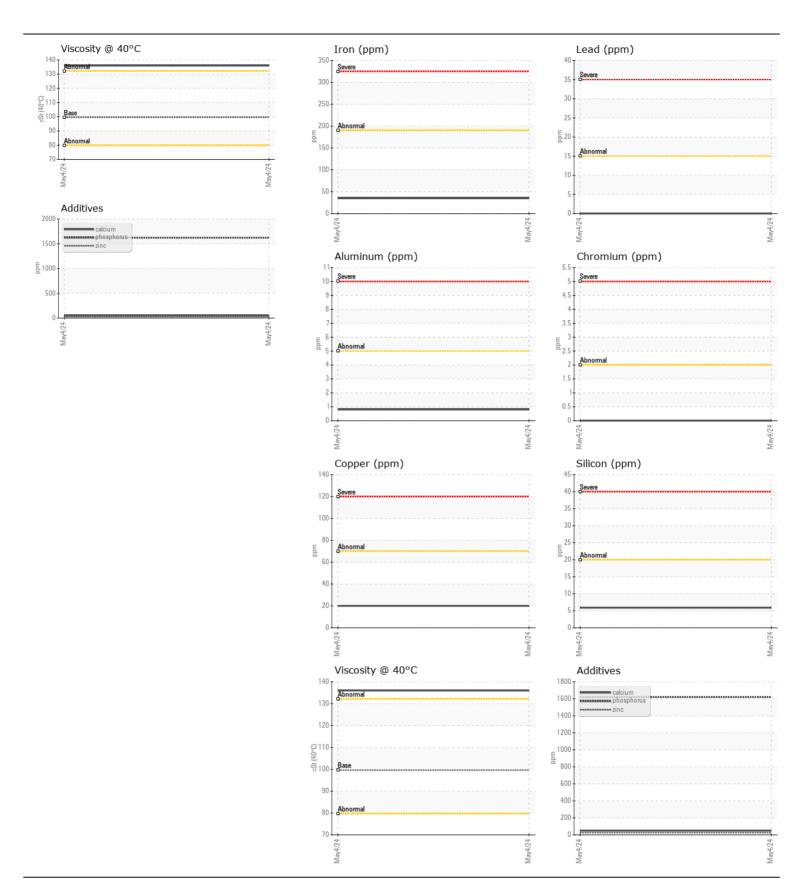
**NORMAL NORMAL NORMAL** 



## Machine Id **LIEBHERR LH50M 146771-1216**

Rear Differential

THETIC 75	W90	( GAL	)			
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		wc		
Sample Date		Client Info		04 May 2024		
Machine Age	hrs	Client Info		2027		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Not Changd		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185(m)	>190	35		
Chromium	ppm	ASTM D5185(m)	>2	0		
Nickel	ppm	ASTM D5185(m)	>2	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>5	<1		
Lead	ppm	ASTM D5185(m)	>15	0		
Copper	ppm	ASTM D5185(m)	>70	20		
Tin	ppm	ASTM D5185(m)	>2	0		
Vanadium	ppm	ASTM D5185(m)		0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>20	6		
Potassium	ppm	ASTM D5185(m)	>20	1		
Water		WC Method	>.2	NEG		
Silt	scalar	Visual*	NONE	VLITE		
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*	>.2	NEG		
Sodium	ppm	ASTM D5185(m)		5		
Boron	ppm	ASTM D5185(m)	328	89		
Barium	ppm	ASTM D5185(m)	1	2		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		1		
Magnesium	ppm	ASTM D5185(m)	1	2		
J			7	40		
Calcium	ppm	ASTM D5185(m)	/	49		
ū	ppm	ASTM D5185(m) ASTM D5185(m)		49 1621		
Calcium		. ,	1145			
Calcium Phosphorus	ppm	ASTM D5185(m) ASTM D5185(m)	1145	1621		
	Test Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	Test UOM Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status  Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Silicon ppm Potassium ppm Water Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Codor scalar Emulsified Water scalar Sodium ppm Boron ppm Barium ppm Molybdenum ppm	Test UOM Method Sample Number Client Info Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Oil Changed Client Info Filter Age hrs Client Info Oil Changed Client Info Sample Status  Iron ppm ASTM D5185(m) Chromium ppm ASTM D5185(m) Nickel ppm ASTM D5185(m) Titanium ppm ASTM D5185(m) Aluminum ppm ASTM D5185(m) Lead ppm ASTM D5185(m) Copper ppm ASTM D5185(m) Vanadium ppm ASTM D5185(m) Valer Visual* Silicon ppm ASTM D5185(m) Vater Visual* Sand/Dirt scalar Visual* Sodium ppm ASTM D5185(m) Boron ppm ASTM D5185(m) Boron ppm ASTM D5185(m) Barium ppm ASTM D5185(m) Barium ppm ASTM D5185(m)	Test UOM Method Limit/Abn Sample Number Client Info Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Filter Age hrs Client Info Oil Changed Client Info Filter Changed Client Info Sample Status  Iron ppm ASTM D5185(m) >190 Chromium ppm ASTM D5185(m) >2 Nickel ppm ASTM D5185(m) >2 Nickel ppm ASTM D5185(m) >5 Iver ppm ASTM D5185(m) >5 Lead ppm ASTM D5185(m) >15 Copper ppm ASTM D5185(m) >2 Vanadium ppm ASTM D5185(m) >20 Vater Visual* NONE Silicon ppm ASTM D5185(m) >20 Vater WC Method >.2 Silt scalar Visual* NONE Sand/Dirt scalar Visual* NONE Sand/Dirt scalar Visual* NONE Appearance scalar Visual* NONE Sand/Dirt scalar Visual* NONE Sand/Dirt scalar Visual* NONE Sand/Dirt scalar Visual* NORML Emulsified Water scalar Visual* NORML Boron ppm ASTM D5185(m) 328 Barium ppm ASTM D5185(m) 1 Molybdenum ppm ASTM D5185(m) 1	Test         UOM         Method         Limit/Abn         Current           Sample Number         Client Info         WC           Sample Date         Client Info         04 May 2024           Machine Age         hrs         Client Info         0           Oil Age         hrs         Client Info         0           Filter Age         hrs         Client Info         0           Oil Changed         Client Info         Changed           Filter Changed         Client Info         Not Changed           Sample Status         NORMAL           Iron         ppm         ASTM D5185(m)         >190         35           Chromium         ppm         ASTM D5185(m)         >2         0           Nickel         ppm         ASTM D5185(m)         >2         0           Nickel         ppm         ASTM D5185(m)         >2         0           Aluminum         ppm         ASTM D5185(m)         >5         <1           Lead         ppm         ASTM D5185(m)         >5         <1           Copper         ppm         ASTM D5185(m)         >2         0           Vanadium         ppm         ASTM D5185(m)         >2         0	Sample Number   Client Info   WC   Sample Date   Client Info   Q4 May 2024   Client Info   Q4 May 2024   Client Info   Q4 May 2024   Client Info   Q5   Client Info   Q6   Client Info   Q7   Changed   Client Info   Q7   Changed   Client Info   Changed   Client Info   Changed   Client Info   Not Changed   Chromium   ppm   ASTM D5185(m)   >190   35   Chromium   ppm   ASTM D5185(m)   >2   Q   Chromium   ppm   ASTM D5185(m)   >2   Q   Chromium   ppm   ASTM D5185(m)   >2   Q   Chromium   ppm   ASTM D5185(m)   >5   <1   Chromium   ppm   ASTM D5185(m)   >5   <1   Chromium   ppm   ASTM D5185(m)   >7   20   Chromium   ppm   ASTM D5185(m)   >7   20   Chromium   ppm   ASTM D5185(m)   >2   Q   Chromium   ppm   ASTM D5185(m)   Sand/Dirt   Scalar   Visual*   NONE   NONE   Chromium   NONE   Chromium   Ppm   ASTM D5185(m)   Sand/Dirt   Scalar   Visual*   NORML   NORML   Chromium   Ppm   ASTM D5185(m)   Sand/Dirt   Scalar   Visual*   NORML   NORML   Chromium   Ppm   ASTM D5185(m)   Sand/Dirt   Scalar   Visual*   Scalar   Visual





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. : WC Lab Number

: 02636161 Unique Number : 5785323 Test Package : MOB 1

Received **Tested** Diagnosed

: 16 May 2024 : 16 May 2024

: 16 May 2024 - Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recyclage de Metaux Integre Inc. - RMI Inc. 1000 Route 389 Fermont, QC CA G0G 1J0 Contact: Paul Germain pgermain@rmi-imr.com

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.

Submitted By: Bruno Savard

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