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

**NORMAL NORMAL NORMAL** 

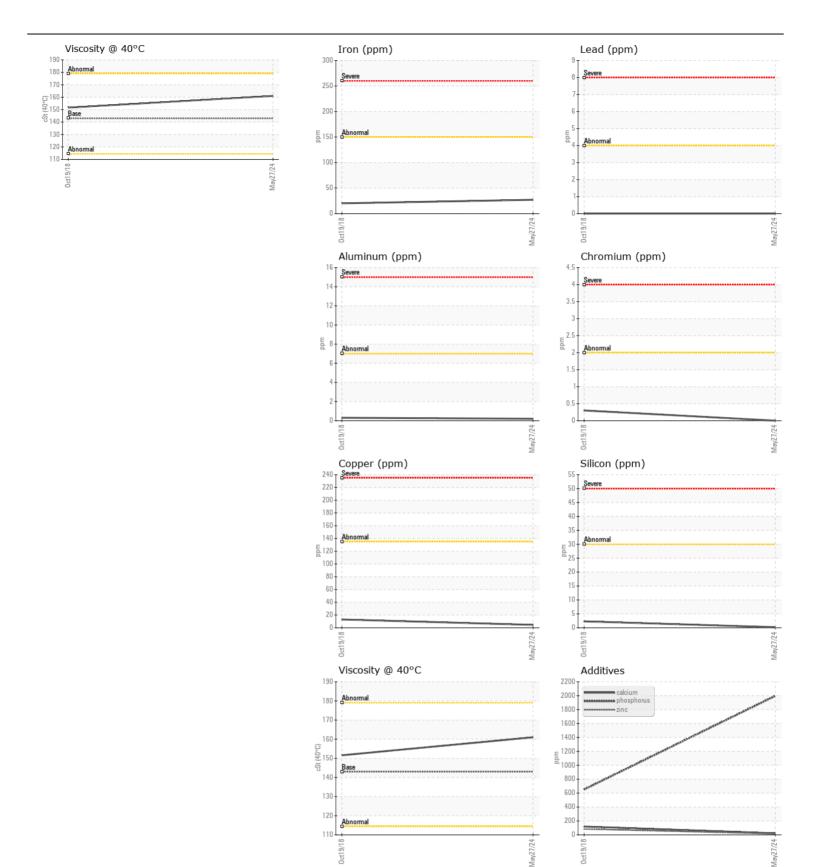


## Machine Id LIEBHERR LH50M 1216-98210

Rear Differential

Fluid GEAR OIL SAE 80W00 (.

GEAR OIL SAE 80W90 ( GAL	) 						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0290695	LHMC103349	
	Sample Date		Client Info		27 May 2024	19 Oct 2018	
	Machine Age	hrs	Client Info		1000	1875	
	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	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	nnm	ACTM DE10E/m)	. 150	07	20	
WEAN	Iron Chromium	ppm	ASTM D5185(m) ASTM D5185(m)		27	20	
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		0	<1 0	
	Titanium	ppm	ASTM D5185(m)	>2	0	0	
	Silver	ppm	ASTM D5185(m)	<b>-</b> Λ	0	2	
	Aluminum	ppm		>7	<1	<1	
	Lead	ppm	ASTM D5185(m)	>4	0	0	
	Copper	ppm	ASTM D5185(m)		4	13	
	Tin	ppm	ASTM D5185(m)	>3	0	0	
	Vanadium	ppm	ASTM D5185(m)	, 0	0	0	
	White Metal	scalar	Visual*	NONE	NONE	LIGHT	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTANINATION							
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>30	<1	2	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		<1	2	
	Water		WC Method	>0.2	NEG	NEG	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt		1 / Lak	NICNIE		NONE	
		scalar	Visual*	NONE	NONE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	NONE NORML	
	Appearance Odor	scalar scalar	Visual* Visual*	NORML NORML	NORML NORML	NONE NORML NORML	
	Appearance	scalar scalar	Visual* Visual*	NORML	NORML	NONE NORML	
FLUID CONDITION	Appearance Odor	scalar scalar	Visual* Visual* Visual*	NORML NORML	NORML NORML	NONE NORML NORML	
	Appearance Odor Emulsified Water	scalar scalar scalar	Visual* Visual* Visual* ASTM D5185(m)	NORML NORML >0.2	NORML NORML NEG	NONE NORML NORML NEG	
FLUID CONDITION  The condition of the oil is acceptable for the time in service.	Appearance Odor Emulsified Water Sodium	scalar scalar scalar ppm	Visual* Visual* Visual* ASTM D5185(m)	NORML NORML >0.2 >170	NORML NORML NEG	NONE NORML NORML NEG	
	Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar ppm	Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	NORML NORML >0.2 >170 400	NORML NORML NEG 4 15	NONE NORML NORML NEG 4	
	Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar ppm ppm ppm	Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NORML NORML >0.2 >170 400 200 12	NORML NORML NEG 4 15	NONE NORML NORML NEG  4 6 48	
	Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar ppm ppm ppm	Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NORML NORML >0.2 >170 400 200 12	NORML NORML NEG  4 15 0 0 <1 5	NONE NORML NORML NEG  4 6 48 19 <1 54	
	Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar ppm ppm ppm ppm	Visual* Visual* Visual* ASTM D5185(m)	NORML NORML >0.2 >170 400 200 12	NORML NORML NEG  4 15 0 0 <1 5 23	NONE NORML NORML NEG  4 6 48 19 <1 54 120	
	Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar ppm ppm ppm ppm ppm	Visual* Visual* Visual* ASTM D5185(m)	NORML NORML >0.2 >170 400 200 12 12 150 1650	NORML NORML NEG  4 15 0 0 <1 5 23 1996	NONE NORML NORML NEG  4 6 48 19 <1 54 120 652	
	Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar ppm ppm ppm ppm ppm ppm	Visual* Visual* Visual*  ASTM D5185(m)	NORML NORML >0.2 >170 400 200 12 12 150 1650 125	NORML NORML NEG  4 15 0 0 <1 5 23 1996 15	NONE NORML NORML NEG  4 6 48 19 <1 54 120 652 84	
	Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm ppm	Visual* Visual* Visual* ASTM D5185(m)	NORML NORML >0.2 >170 400 200 12  150 1650 125 22500	NORML NORML NEG  4 15 0 0 <1 5 23 1996 15 27267	NONE NORML NORML NEG  4 6 48 19 <1 54 120 652 84 14415	
	Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	Visual* Visual* Visual* ASTM D5185(m)	NORML NORML >0.2 >170 400 200 12 12 150 1650 125	NORML NORML NEG  4 15 0 0 <1 5 23 1996 15 27267 161	NONE NORML NORML NEG  4 6 48 19 <1 54 120 652 84	







Laboratory Sample No.

: LH0290695 Lab Number : 02639686

Unique Number : 5788848 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 04 Jun 2024 **Tested** : 05 Jun 2024

Diagnosed : 05 Jun 2024 - Wes Davis

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.

SIMS BROTHERS

1011 S. PROSPECT ST MARION, OH US 43302

Contact: BOB LANCE

T: F: