

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id LIEBHERR LH30M 090077

Rear Left Wheel Hub

GEAR OIL SAE 75W90 (--- GAL)

REC	COMN	IEND	ATIO	N

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

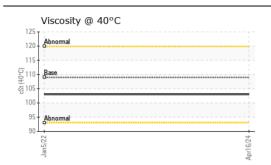
There is no indication of any contamination in the oil.

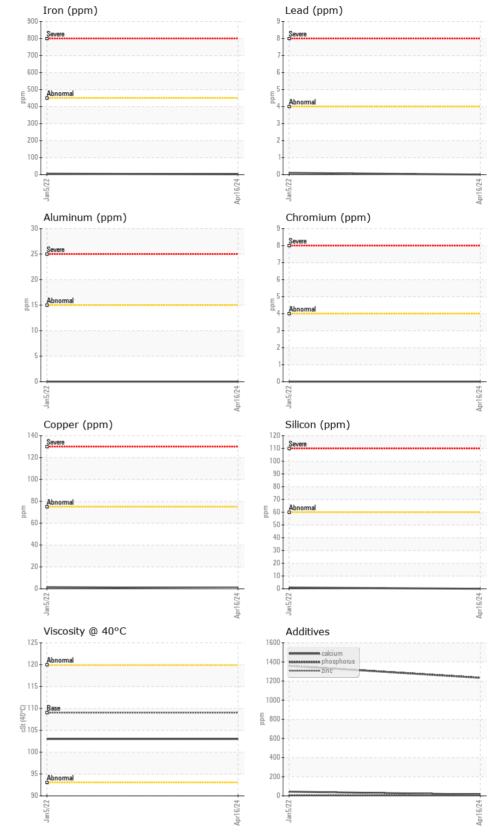
FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0276285	LH	
Sample Date		Client Info		16 Apr 2024	05 Jan 2022	
Machine Age	hrs	Client Info		6756	5072	
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	
					_	
Iron	ppm	ASTM D5185(m)	>450	2	5	
Chromium	ppm	ASTM D5185(m)	>4	0	0	
Nickel	ppm	ASTM D5185(m)	>2	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>15	0	0	
Lead	ppm	ASTM D5185(m)	>4	0	<1	
Copper	ppm	ASTM D5185(m)	>75	<1	2	
Tin	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Ciliaan			. 60	•		
Silicon	ppm	ASTM D5185(m)	>60	0	1	
Potassium	ppm	ASTM D5185(m) ASTM D5185(m)	>20	0	۱ <1	
				-		
Potassium		ASTM D5185(m)	>20	0	<1	
Potassium Water	ppm	ASTM D5185(m) WC Method	>20 >0.2	0 NEG	<1 NEG	
Potassium Water Silt	ppm scalar	ASTM D5185(m) WC Method Visual*	>20 >0.2 NONE	0 NEG NONE	<1 NEG NONE	
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185(m) WC Method Visual* Visual*	>20 >0.2 NONE NONE	0 NEG NONE VLITE	<1 NEG NONE VLITE	
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual*	>20 >0.2 NONE NONE NONE	0 NEG NONE VLITE NONE	<1 NEG NONE VLITE NONE	
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NONE NORML	0 NEG NONE VLITE NONE NORML	<1 NEG NONE VLITE NONE NORML	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE VLITE NONE NORML NORML NEG	<1 NEG NONE VLITE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2	0 NEG NONE VLITE NONE NORML NEG 1	<1 NEG NONE VLITE NORML NORML NEG 1	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2	0 NEG NONE VLITE NONE NORML NORML NEG 1 326	<1 NEG NONE VLITE NORML NORML NEG 1 327	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2	0 NEG NONE VLITE NONE NORML NEG 1	<1 NEG NONE VLITE NORML NORML NEG 1	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2	0 NEG NONE VLITE NORML NORML NEG 1 326 0	<1 NEG NONE VLITE NORML NORML NEG 1 327 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2	0 NEG NONE VLITE NORML NORML NEG 1 326 0 0	<1 NEG NONE VLITE NORML NORML NEG 1 327 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML >0.2 400 200 12	0 NEG NONE VLITE NORML NORML NEG 1 326 0 0 0	<1 NEG NONE VLITE NORML NORML NEG 1 327 0 0 0 <1	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.2 NONE NONE NORML NORML >0.2 400 200 12 12	0 NEG NONE VLITE NORML NORML NEG 1 326 0 0 0 0 0 1 1 15	<1 NEG NONE VLITE NORML NORML NEG 1 327 0 0 0 <1 2 44	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	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)	>20 >0.2 NONE NONE NORML NORML >0.2 400 200 12	0 NEG NONE VLITE NORML NORML NEG 1 326 0 0 0 0 0	<1 NEG NONE VLITE NORML NORML NEG 1 327 0 0 0 <1 2	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* 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)	>20 >0.2 NONE NONE NORML >0.2 400 200 12 12 12 150 1650 125	0 NEG NONE VLITE NONE NORML NORML NEG 1 326 0 0 0 0 0 1 15 1234 9	<1 NEG VLITE NONE NORML NORML NORML NORML 1 327 0 0 <1 2 44 1359 10	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	 >20 >0.2 NONE NORML >0.2 400 200 12 12 150 1650 	0 NEG NONE VLITE NORML NORML NEG 1 326 0 0 0 0 1 15 1234	<1 NEG NONE VLITE NORML NORML NEG 1 327 0 0 <1 2 44 1359	

Submitted By: Rick Cule





: 17 Apr 2024

: 18 Apr 2024

: 18 Apr 2024 - Wes Davis

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA 回货 Sample No. Received : LH0276285 Lab Number : 02629784 Tested ISO 17025:2017 Accredited Unique Number : 5762916 Diagnosed Laboratory Test Package : MOB 1 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.

ELG Canada 4375 CORPORATE DRIVE BURLINGTON, ON CA L7L 5P7 Contact: Service Manager

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Submitted By: Rick Cule Page 2 of 2