



# LIEBHERR L580 071613-1760

**Rear Differential** 

## LIEBHERR GEAR BASIC 90 LS (--- GAL)

REC	CON	ЛΜΕ	NDA	TIC	DN	

Resample at the next service interval to monitor.

#### WEAR

All component wear rates are normal.

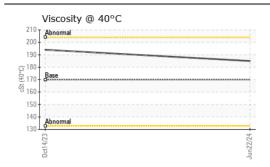
#### CONTAMINATION

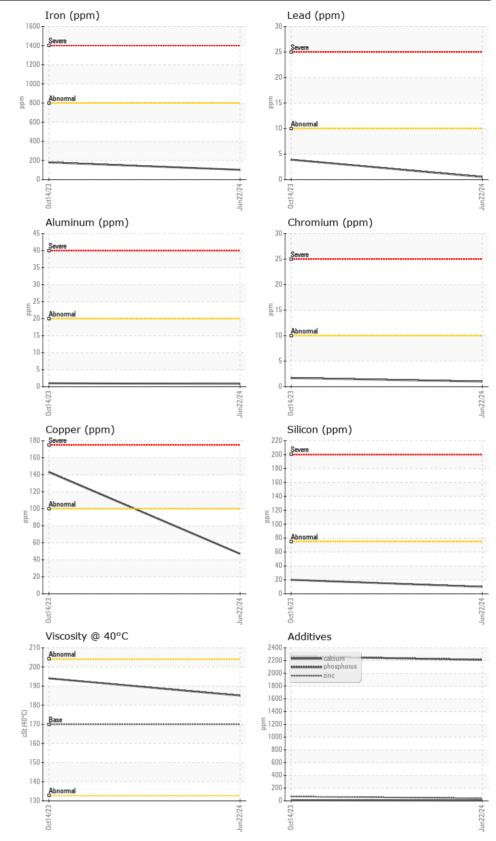
There is no indication of any contamination in the oil.

### 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		LH0292404	LH0277088	
Sample Date		Client Info		22 Jun 2024	14 Oct 2023	
Machine Age	hrs	Client Info		2202	1054	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Filter Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
Iron	ppm	ASTM D5185(m)	>800	102	179	
Chromium	ppm	ASTM D5185(m)	>10	1	2	
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	
Titanium	ppm	ASTM D5185(m)	>8	0	0	
Silver	ppm	ASTM D5185(m)		0	<1	
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	
Lead	ppm	ASTM D5185(m)	>10	<1	4	
Copper	ppm	ASTM D5185(m)	>100	47	143	
Tin	ppm	ASTM D5185(m)	>5	4	7	
Vanadium	ppm	ASTM D5185(m)		0	0	
White Metal	scalar	Visual*	NONE	VLITE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Silicon	nnm	ASTM D5185(m)	>75	10	20	
Silicon	ppm ppm	ASTM D5185(m)	>75	10 <1	20 1	
Potassium	ppm ppm	ASTM D5185(m)	>20	<1	1	
Potassium Water	ppm	ASTM D5185(m) WC Method	>20 >.2	<1 NEG	1 NEG	
Potassium Water Silt	ppm scalar	ASTM D5185(m) WC Method Visual*	>20 >.2 NONE	<1 NEG NONE	1 NEG NONE	
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185(m) WC Method Visual* Visual*	>20 >.2 NONE NONE	<1 NEG NONE NONE	1 NEG NONE NONE	
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual*	>20 >.2 NONE NONE NONE	<1 NEG NONE NONE NONE	1 NEG NONE NONE	
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>20 >.2 NONE NONE NONE NORML	<1 NEG NONE NONE NONE NORML	1 NEG NONE NONE NONE NORML	 
Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual*	>20 >.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORE NORML NORML	1 NEG NONE NONE NONE NORML NORML	  
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	>20 >.2 NONE NONE NONE NORML	<1 NEG NONE NONE NONE NORML	1 NEG NONE NONE NONE NORML	  
Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual*	>20 >.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORE NORML NORML	1 NEG NONE NONE NONE NORML NORML	  
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual*	>20 >.2 NONE NONE NORML NORML >.2	<1 NEG NONE NONE NORML NORML NEG	1 NEG NONE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>20 >.2 NONE NONE NORML NORML >.2	<1 NEG NONE NONE NORML NORML NEG	1 NEG NONE NONE NORML NORML NEG 6	
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 >.2 NONE NONE NORML >.2	<1 NEG NONE NONE NORML NORML NEG 2 <1	1 NEG NONE NONE NORML NORML NEG 6 1	
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 >.2 NONE NONE NORML NORML >.2	<1 NEG NONE NONE NORML NORML NEG 2 <1 <1	1 NEG NONE NONE NORML NORML NEG 6 1 <1	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar 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 >.2 NONE NORME NORML >.2 0 0 0	<1 NEG NONE NONE NORML NORML NEG 2 <1 <1 <1 0	1 NEG NONE NONE NORML NEG 6 1 <1 <1 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	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >.2 NONE NONE NORML >.2 0 0 0 0	<1 NEG NONE NONE NORML NORML NEG 2 <1 <1 <1 0 19	1 NEG NONE NONE NORML NORML NEG 6 1 <1 <1 0 43	
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	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >.2 NONE NONE NORML NORML >.2 0 0 0 0 0 0 0	<1 NEG NONE NONE NORML NORML NEG 2 <1 <1 0 19 <1	1 NEG NONE NONE NORML NORML NEG 6 1 <1 <1 0 43 1	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	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) ASTM D5185(m)	>20 >.2 NONE NONE NORML NORML >.2 0 0 0 0 0 0 0 1 2 1	<1 NEG NONE NONE NORML NORML NEG 2 <1 <1 0 19 <1 6	1 NEG NONE NONE NORML NORML NEG 6 1 <1 <1 0 43 1 1	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Malybdenum Manganese Magnesium Calcium	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) ASTM D5185(m) ASTM D5185(m)	>20 >.2 NONE NONE NORML >.2 0 0 0 0 0 0 1 1 <1 2143	<1 NEG NONE NONE NORML NORML NEG 2 <1 <1 0 19 <1 6 2210	1 NEG NONE NONE NORML NORML NEG 6 1 <1 <1 0 43 1 11 2265	





**BIRCH HILL CONSTRUCTION** Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received : 28 Jun 2024 11 MCELROY ST. : LH0292404 Lab Number : 02644662 Tested MONCTON, NB : 02 Jul 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5802201 Diagnosed : 02 Jul 2024 - Kevin Marson CA E1C 9T2 Test Package : MOB 1 Contact: Service Manager To discuss this sample report, contact Customer Service at 1-800-268-2131. T: 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. F:

Submitted By: ? Page 2 of 2