

Machine Id LIEBI Component Splitte LIEBH

## LIEBHERR LH30M 153712-1253

Splitter Box

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

RECOMMENDATION

Resample at the next service interval to monitor.

#### **WEAR**

All component wear rates are normal.

### CONTAMINATION

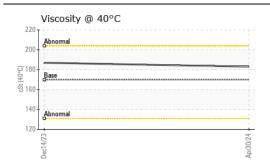
There is no indication of any contamination in the oil.

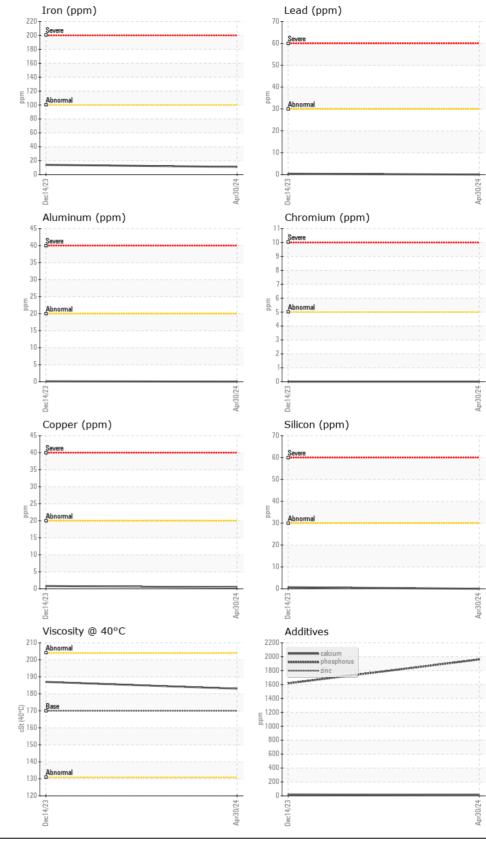
### FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH	LH	
Sample Date		Client Info		30 Apr 2024	14 Dec 2023	
Machine Age	hrs	Client Info		1001	500	
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	
			400			
Iron	ppm	ASTM D5185(m)	>100	11	14	
Chromium	ppm	ASTM D5185(m)	>5	0	0	
Nickel	ppm	ASTM D5185(m)	>5	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	00	0	<1	
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	
Lead	ppm	ASTM D5185(m)	>30	0	<1	
Copper	ppm	ASTM D5185(m)	>20	<1	<1	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Vanadium	ppm	ASTM D5185(m)	NONE	0	0	
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185(m)	>30	0	<1	
Silicon Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>30 >20	0 <1	<1 1	
				-		
Potassium		ASTM D5185(m)	>20	<1	1	
Potassium Water	ppm	ASTM D5185(m) WC Method	>20 >0.1	<1 NEG	1 NEG	
Potassium Water Silt	ppm scalar	ASTM D5185(m) WC Method Visual*	>20 >0.1 NONE	<1 NEG NONE	1 NEG NONE	
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185(m) WC Method Visual* Visual*	>20 >0.1 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 >0.1 NONE NONE NONE	<1 NEG NONE NONE VLITE	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 >0.1 NONE NONE NONE	<1 NEG NONE NONE VLITE NORML	1 NEG NONE NONE NONE 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 >0.1 NONE NONE NORML NORML >0.1	<1 NEG NONE NONE VLITE 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 >0.1 NONE NONE NORML NORML >0.1	<1 NEG NONE VLITE NORML NORML NEG	1 NEG NONE NONE NORML NORML NEG 4	   
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 >0.1 NONE NONE NORML >0.1 >25 0	<1 NEG NONE VLITE NORML NORML NEG 2 <1	1 NEG NONE NONE NORML NORML NEG 4	
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 >0.1 NONE NONE NORML NORML >0.1 >25 0 0	<1 NEG NONE VLITE NORML NORML NEG 2 <1 0	1 NEG NONE NONE NORML NORML NEG 4 1 <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* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NORME NORML >0.1 >25 0 0 0	<1 NEG NONE VLITE NORML NORML NEG 2 <1 0 0	1 NEG NONE NONE NORML NORML NEG 4 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* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML >0.1 >25 0 0 0 0	<1 NEG NONE VLITE NORML NORML NEG 2 <1 0 0 <1	1 NEG NONE NONE NORML NORML NEG 4 1 <1 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	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >0.1 NONE NONE NORML NORML >0.1 >25 0 0 0 0 0 0 0 0	<1 NEG NONE VLITE NORML NORML NEG 2 <1 0 0 <1 1	1 NEG NONE NONE NORML NORML NEG 4 1 <1 0 <1 2	
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	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 >0.1 NONE NONE NORML NORML >0.1 >25 0 0 0 0 0 0 0 1 0 1 2 1	<1 NEG NONE VLITE NORML NORML NEG 2 <1 0 0 <1 1 1 15	1 NEG NONE NONE NORML NORML NEG 4 1 <1 <1 0 <1 2 2	
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 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 >0.1 NONE NONE NORML >0.1 >25 0 0 0 0 0 0 1 0 1 1 2143	<1 NEG NONE VLITE NORML NORML NEG 2 <1 0 0 <1 1 15 1960	1 NEG NONE NONE NORML NORML NEG 4 1 <1 <1 <1 0 <1 2 2 21 1617	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum 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 >0.1 NONE NONE NORML >0.1 >25 0 0 0 0 0 0 0 1 0 1 2 1 2 143 <1	<1 NEG NONE VLITE NORML NORML NEG 2 <1 0 0 <1 1 15 1960 16	1 NEG NONE NONE NORML NORML NEG 4 1 <1 0 <1 2 2 21 1617 17	
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 >0.1 NONE NONE NORML >0.1 >25 0 0 0 0 0 0 1 0 1 1 2143	<1 NEG NONE VLITE NORML NORML NEG 2 <1 0 0 <1 1 15 1960	1 NEG NONE NONE NORML NORML NEG 4 1 <1 <1 <1 0 <1 2 2 21 1617	

Submitted By: Marie-Eve Belley





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Innovation Industrielle Boivin Inc. CALA Sample No. Received 2205 de la Fonderie :LH :03 May 2024 Lab Number : 02633253 Tested Chicoutimi, QC :03 May 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5774406 Diagnosed : 03 May 2024 - Wes Davis CA G7H 8B9 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. F: Validity of results and interpretation are based on the sample and information as supplied.

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