WEAR CONTAMINATION FLUID CONDITION

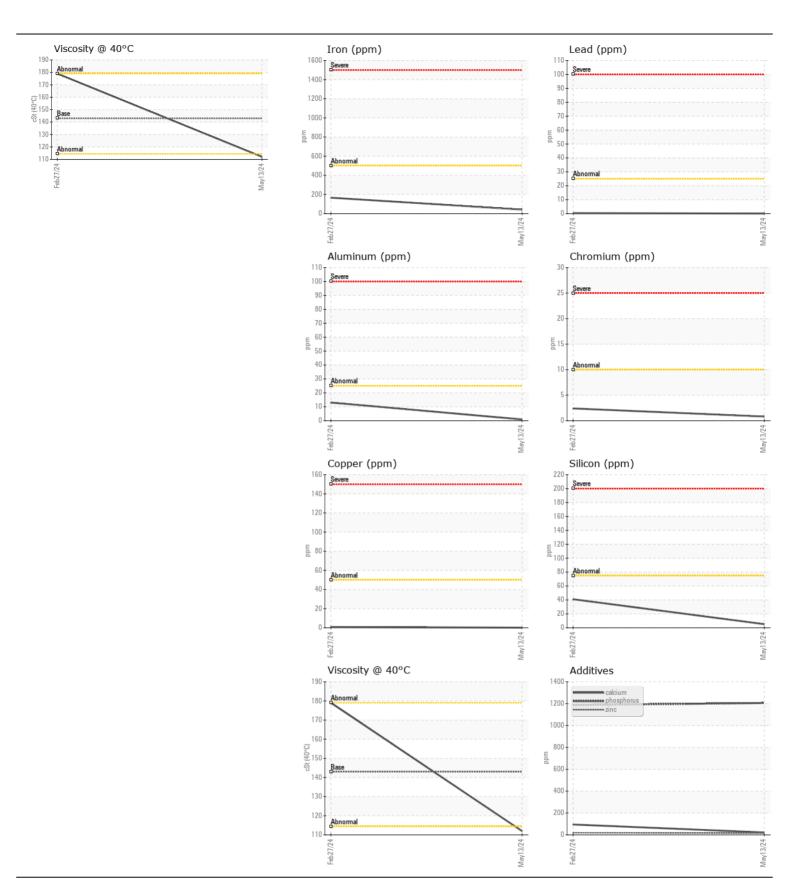
NORMAL NORMAL NORMAL



## Machine Id LIEBHERR LH40C 155775-1527

Right Final Drive

GEAR OIL SAE 80W90 ( 0	AL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0289728		
	Sample Date		Client Info		13 May 2024	27 Feb 2024	
	Machine Age	hrs	Client Info		1026	447	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>500	41	166	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>10	<1	2	
	Nickel	ppm	ASTM D5185(m)		<1	<1	
	Titanium	ppm	ASTM D5185(m)		0	<1	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	>25	<1	13	
	Lead	ppm	ASTM D5185(m)	>25	0	<1	
	Copper	ppm	ASTM D5185(m)	>50	<1	<1	
	Tin	ppm	ASTM D5185(m)	>10	0	<1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	VLITE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTANUNATION							
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		5	41	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<1	6	
	Water			>0.2	NEG	NEG	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	
	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual^ ·	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>170	2	6	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	400	244	15	
	Barium	ppm	ASTM D5185(m)	200	6	17	
	Molybdenum	ppm	ASTM D5185(m)	12	0	0	
	Manganese	ppm	ASTM D5185(m)		<1	2	
	Magnesium	ppm	ASTM D5185(m)		4	22	
	Calcium	ppm	ASTM D5185(m)		22	95	
	Phosphorus	ppm	ASTM D5185(m)		1206	1187	
	Zinc	ppm	ASTM D5185(m)	125	15	20	
	Sulfur	ppm	ASTM D5185(m)	22500	21992	22987	
	Visc @ 40°C	cSt	ASTM D7279(m)	143	112	179	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number : 02635374 Unique Number : 5776527

: LH0289728 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 14 May 2024 **Tested** : 14 May 2024 Diagnosed : 14 May 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.

**BEN-MET STEEL & METAL INC.** 

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