WEAR CONTAMINATION FLUID CONDITION

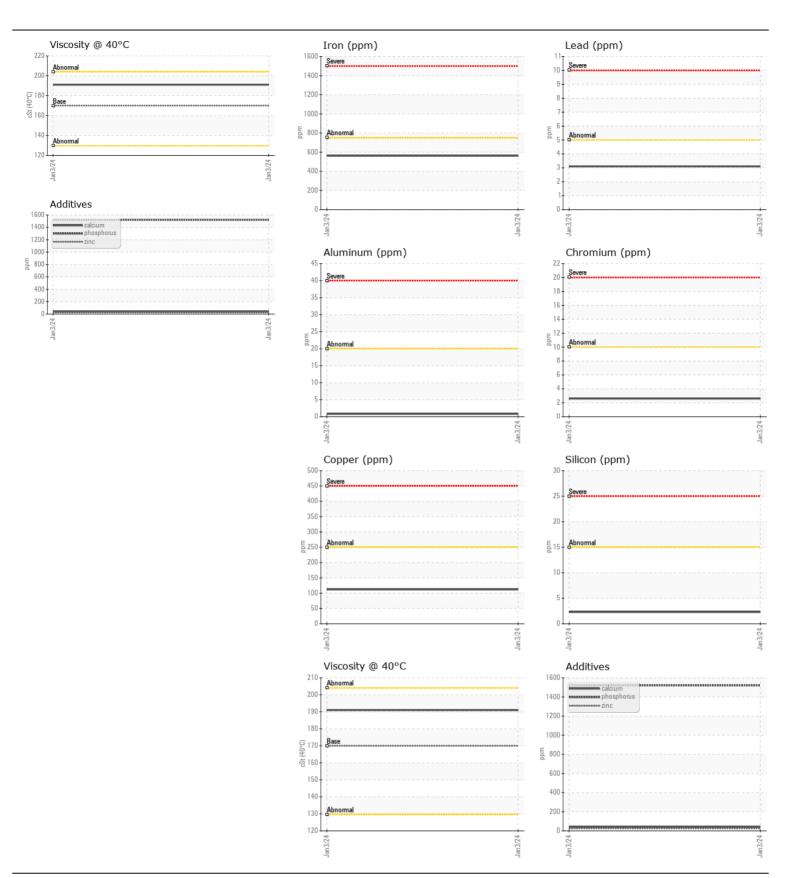
NORMAL NORMAL



Area
DEMOSPEC
Machine Id
LIEBHERR R940 056182
Component

Swing Drive

LIEBHERR GEAR BASIC 90 LS	(20 LTR)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.	Sample Number		Client Info		LH0279225		
	Sample Date		Client Info		03 Jan 2024		
	Machine Age	hrs	Client Info		571		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>750	562		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>10	3		
	Nickel	ppm	ASTM D5185(m)	>5	<1		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)	>20	<1		
	Lead	ppm	ASTM D5185(m)	>5	3		
	Copper	ppm	ASTM D5185(m)	>250	112		
	Tin	ppm	ASTM D5185(m)	>10	4		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>15	2		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	4		
	Water		WC Method	>0.2	NEG		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		6		
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	0	2		
	Barium	ppm	ASTM D5185(m)	0	9		
	Molybdenum	ppm	ASTM D5185(m)	0	0		
	Manganese	ppm	ASTM D5185(m)		4		
	Magnesium	ppm	ASTM D5185(m)	<1	1		
	Calcium	ppm	ASTM D5185(m)	<1	41		
	Phosphorus	ppm	ASTM D5185(m)		1521		
	Zinc	ppm	ASTM D5185(m)	<1	24		
	Sulfur	ppm	ASTM D5185(m)	23468	26819		
	Visc @ 40°C	cSt	ASTM D7279(m)	170	191		





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: LH0279225 : 02606828 : 5707914 **Unique Number** Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved : 05 Jan 2024 Diagnosed : 05 Jan 2024 : Wes Davis Diagnostician

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.

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