

WEAR
CONTAMINATION
FLUID CONDITION

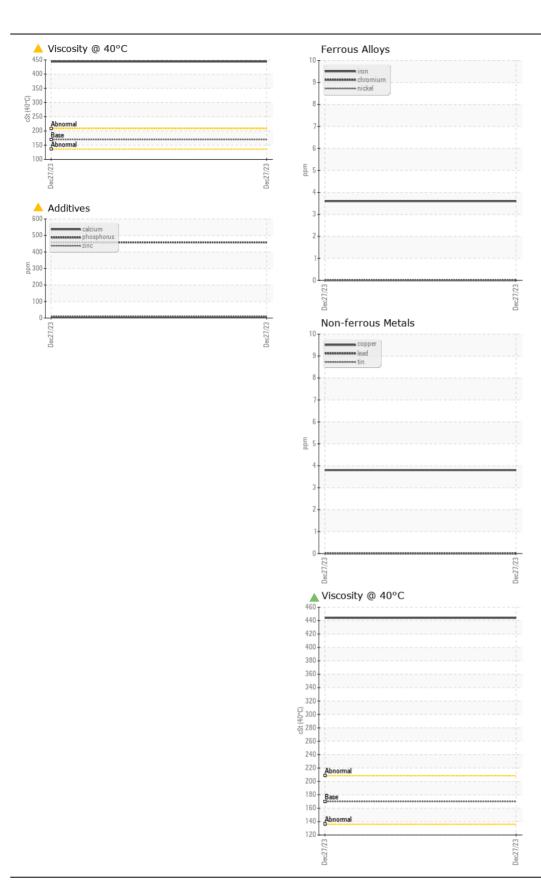
NORMAL NORMAL ATTENTION



LIEBHERR R9150BH 038079-1857

Right Final Drive

LIEBHERR GEAR BASIC 90 LS	(GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		LH0268804		
	Sample Date		Client Info		27 Dec 2023		
	Machine Age	hrs	Client Info		1248		
	Oil Age	hrs	Client Info		1248		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR	Iron	ppm	ASTM D5185m	>500	4		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	-	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>25	<1		
	Lead	ppm	ASTM D5185m	>25	0		
	Copper	ppm	ASTM D5185m	>50	4		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	0		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0		
	Water		WC Method		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 D5185m		0		
The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.	Boron	ppm	ASTM D5185m	0	18		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	0	0		
	Manganese	ppm	ASTM D5185m	0	<1		
	Magnesium	ppm	ASTM D5185m	<1	1		
	Calcium	ppm	ASTM D5185m	<1	3		
	Phosphorus	ppm	ASTM D5185m	2143	458		
	Zinc	ppm	ASTM D5185m	<1	11		
	Sulfur	ppm	ASTM D5185m		▲ 5877		
	Visc @ 40°C	cSt	ASTM D445	170	444		







Certificate L2367

Report Id: LEC0033 [WUSCAR] 06062252 (Generated: 01/19/2024 17:07:57) Rev: 1

Laboratory Sample No. Lab Number

: LH0268804 : 06062252 Unique Number : 10833634 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 Diagnosed : 18 Jan 2024 Diagnostician : Don Baldridge

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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