

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

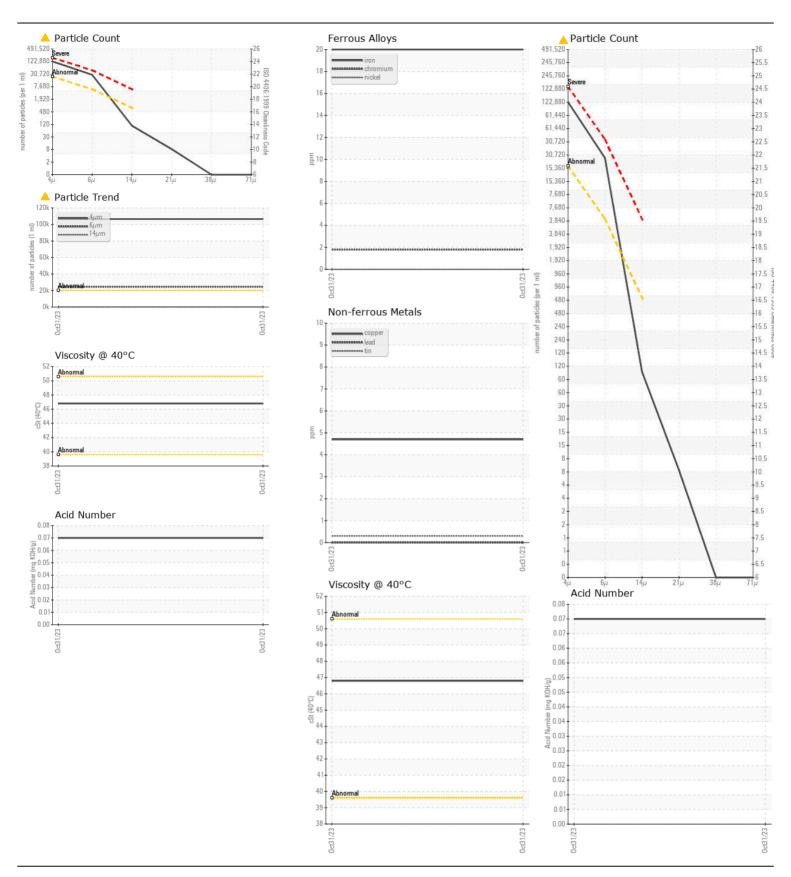


LIEBHERR R9150BH 038164-1956

Component **Hydraulic System**

{not provided} (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component. Resample at	Sample Number		Client Info		LH0268815		
	Sample Date		Client Info		31 Oct 2023		
the next service interval to monitor.	Machine Age	hrs	Client Info		2001		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		20		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		0		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		5		
	Tin	ppm	ASTM D5185m	>5	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTABBINATION	Ciliana		ACTM DE10E	05			
CONTAMINATION	Silicon	ppm	ASTM D5185m		6		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		2		
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647		106576		
	Particles >6µm		ASTM D7647		<u>^</u> 24574		
	Particles >14µm		ASTM D7647		92		
	Particles >21µm		ASTM D7647	>160	7		
	Particles >38µm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness Silt	o o o lo v	ISO 4406 (c)		A 24/22/14		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual *Visual	NONE	NONE NONE		
		scalar scalar	*Visual	NORML	NORML		
	Appearance Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.1	NEG		
		Scalai	Visuai		NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
	Boron	ppm	ASTM D5185m		37		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		3		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		<1		
	Calcium	ppm	ASTM D5185m		290		
	Phosphorus	ppm	ASTM D5185m		313		
	Zinc	ppm	ASTM D5185m		133		
	Sulfur	ppm	ASTM D5185m		633		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.07		
	Visc @ 40°C	cSt	ASTM D445		46.8		
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Certificate L2367

Laboratory Sample No.

: LH0268815 Lab Number : 06088113 Unique Number: 10875558 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Feb 2024 **Tested** : 14 Feb 2024

Diagnosed

: 15 Feb 2024 - Don Baldridge

US 60527 Contact: GERARDO SANCHEZ gsanchez@amstate.com

FINKBINER EQUIPMENT CO.

15 W 400 N FRONTAGE RD

T: (630)450-2316 F: (630)654-3792

BURR RIDGE, IL

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)