WEAR CONTAMINATION **FLUID CONDITION**

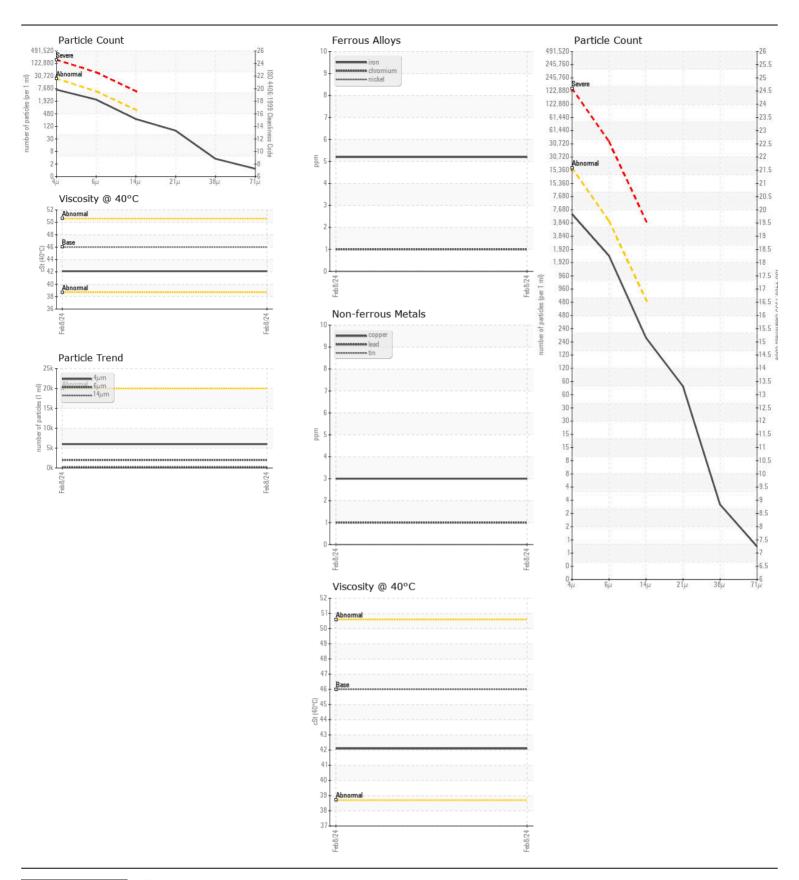
NORMAL NORMAL NORMAL



LIEBHERR R920 056505-1705

Component Hydraulic System

LIEBHERR HYDRAULIC HVI (-	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0269680		
	Sample Date		Client Info		08 Feb 2024		
	Machine Age	hrs	Client Info		528		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAD			ACTM DE10E()		_		
WEAR	Iron	ppm	ASTM D5185(m)		5		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		1		
	Nickel	ppm	ASTM D5185(m)	>5	0		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	0	0		
	Aluminum	ppm	ASTM D5185(m)		1		
	Lead	ppm	ASTM D5185(m)	>5	1		
	Copper	ppm	ASTM D5185(m)		3		
	Tin	ppm	ASTM D5185(m)	>5	0		
	Vanadium	ppm	ASTM D5185(m)	NONE	0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Silicon	ppm	ASTM D5185(m)	>25	4		
	Potassium	ppm	ASTM D5185(m)	>20	1		
	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647	>20000	5991		
	Particles >6µm		ASTM D7647		2012		
	Particles >14μm		ASTM D7647	>640	235		
	Particles >21μm		ASTM D7647	>160	66		
	Particles >38μm		ASTM D7647		3		
	Particles >71μm		ASTM D7647		1		
	Oil Cleanliness		ISO 4406 (c)		20/18/15		
	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 [^]	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1		
	Boron	ppm	ASTM D5185(m)	0	<1		
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		0		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)		4		
	Calcium	ppm	ASTM D5185(m)	1317	1226		
	Phosphorus	ppm	ASTM D5185(m)	611	593		
	Zinc	ppm	ASTM D5185(m)	696	662		
	Sulfur	ppm	ASTM D5185(m)	2574	3601		
	Visc @ 40°C	cSt	ASTM D7279(m)	46	42.1		
		001					





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02616700

: LH0269680 Unique Number : 5733810

Received **Tested** Diagnosed Test Package : MOB 1 (Additional Tests: PrtCount)

: 20 Feb 2024 : 21 Feb 2024

: 21 Feb 2024 - Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 HAYSHAKERS BOBCAT SERVICES 501 761 HWY LESLIEVILLE, AB CA T0M 1H0 Contact: Service Manager

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.

T:

F: