WEAR
CONTAMINATION
FLUID CONDITION

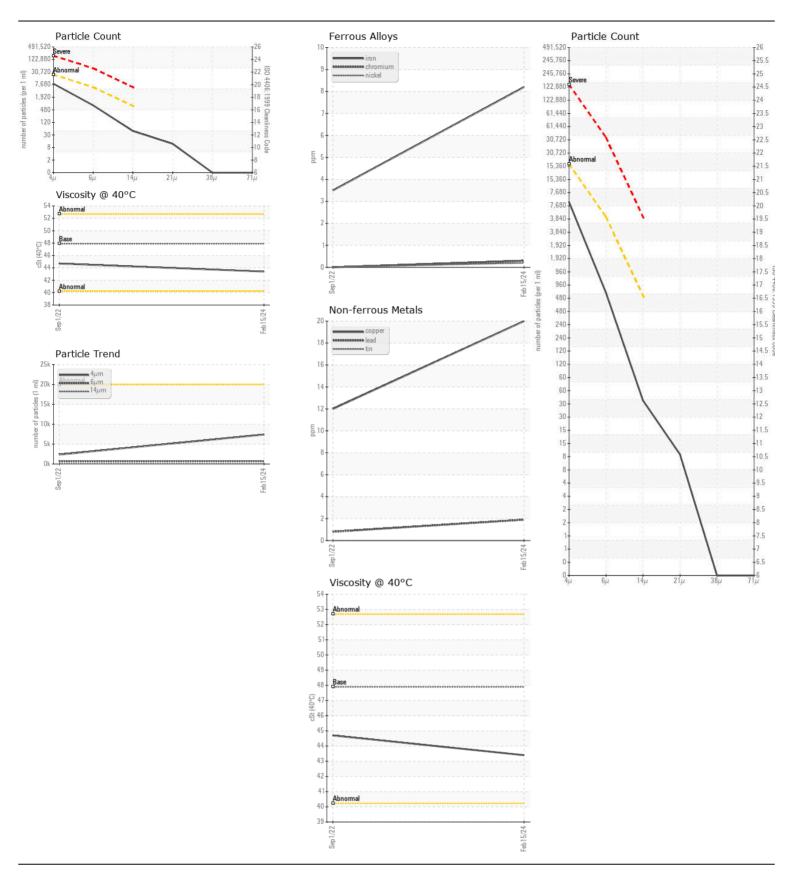
NORMAL NORMAL NORMAL



LIEBHERR LR636 018081-1275

Component Hydraulic System

	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number	OOW	Client Info	LIIIIII/ADII	LH0216092	LH0239351	
	Sample Date		Client Info		15 Feb 2024	01 Sep 2022	
	Machine Age	hrs	Client Info		5913	4366	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185(m)	>30	8	4	
WEAT	Chromium	ppm	ASTM D5185(m)		<1	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		<1	0	
	Titanium	ppm	ASTM D5185(m)	7.0	0	0	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	>5	1	<1	
	Lead	ppm	ASTM D5185(m)	>8	2	<1	
	Copper	ppm	ASTM D5185(m)	>25	20	12	
	Tin	ppm	ASTM D5185(m)	>4	0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	1	1	
ONTAMINATION	Potassium	ppm	ASTM D5185(m)		1	<1	
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water	PP···	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647	>20000	7405	2362	
	Particles >6µm		ASTM D7647	>5000	687	654	
	Particles >14μm		ASTM D7647	>640	41	58	
	Particles >21µm		ASTM D7647	>160	10	13	
	Particles >38μm		ASTM D7647	>40	0	1	
	Particles >71μm		ASTM D7647	>10	0	0	
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/17/13	18/17/13	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance		Visual*	NORML	NORML	NORML	
	Odor		Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185(m)		4	4	
	Boron	ppm	ASTM D5185(m)	0	0	<1	
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)	0	0	0	
	Molybdenum	ppm	ASTM D5185(m)	0	0	<1	
	Manganese	ppm	ASTM D5185(m)		0	<1	
	Magnesium	ppm	ASTM D5185(m)	0	4	5	
	Calcium	ppm	ASTM D5185(m)	100	155	273	
	Phosphorus	ppm	ASTM D5185(m)	670	508	433	
			ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	670 850 1600	508 629 1472	433 542 1391	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: LH0216092 Lab Number : 02616667 Unique Number : 5733777

Received **Tested** Diagnosed : 20 Feb 2024

: 21 Feb 2024

: 21 Feb 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: PrtCount) 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.

CON-DRAIN LTD. 30 FLORAL PARKWAY CONCORD, ON CA L4K 4R1 Contact: B BAXTER B.BAXTER@CONDRAIN.COM

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