

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Machine Id 106090-1216 LIEBHERR LH50 106090-1216

Component Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.



All component wear rates are normal.

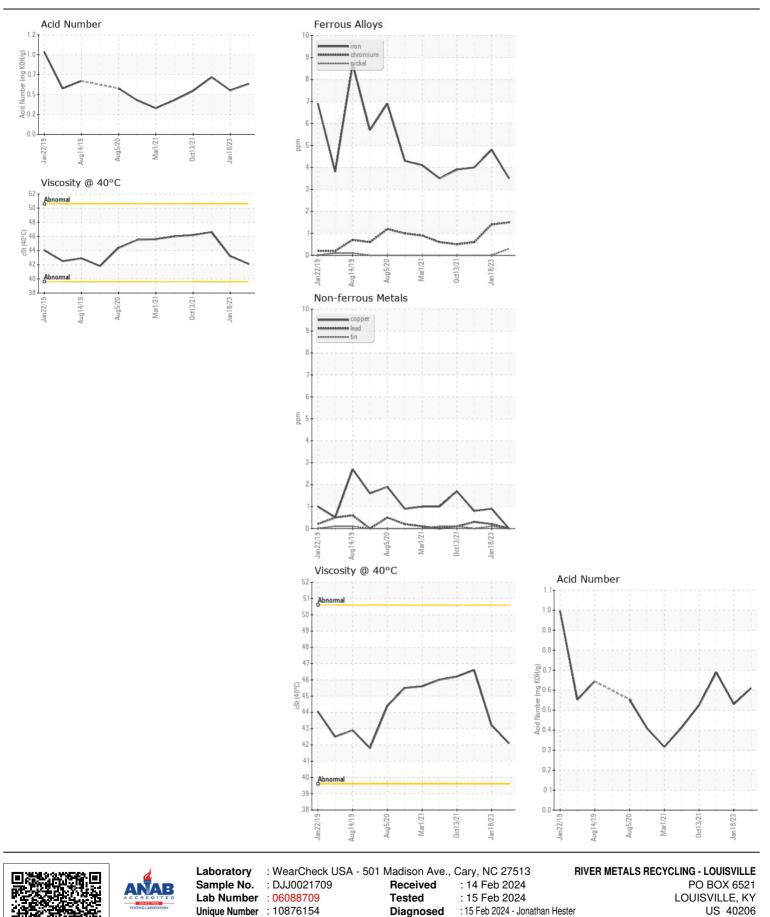
CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		DJJ0021709	DJJ0015722	DJJ0011869
	Sample Date		Client Info		09 Feb 2024	18 Jan 2023	08 Mar 2022
	Machine Age	hrs	Client Info		0	8901	7327
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Not Changd	Not Changd
	Filter Changed		Client Info		N/A	Not Changd	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
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	Iron	ppm	ASTM D5185m	>50	4	5	4
	Chromium	ppm	ASTM D5185m	>5	2	1	<1
	Nickel	ppm	ASTM D5185m	>2	<1 0	0	0
	Titanium Silver	ppm	ASTM D5185m ASTM D5185m		0	<1	<1
	Aluminum	ppm	ASTM D5185m	>2	0 <1	<1	<1
	Lead	ppm	ASTM D5185m	>2	<1 0	<1	<1
		ppm ppm	ASTM D5185m	>10	0	<1	<1
	Copper Tin	ppm	ASTM D5185m	>10	0	<1	< 1
	Vanadium	ppm	ASTM D5185m	>2	0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	VLITE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
-		Scalai	visuai			NONL	NONL
	Silicon	ppm	ASTM D5185m	>17	4	3	3
	Potassium	ppm	ASTM D5185m	>20	4	<1	2
	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>20000		6463	5752
	Particles >6µm		ASTM D7647	>5000		432	236
	Particles >14µm		ASTM D7647	>640		43	17
	Particles >21µm		ASTM D7647	>160		11	6
	Particles >38µm		ASTM D7647	>40		1	0
	Particles >71µm		ASTM D7647	>10		0	0
	Oil Cleanliness		ISO 4406 (c)	>21/19/16		20/16/13	20/15/11
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	A MODER	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185m		2	<1	0
	Boron	ppm	ASTM D5185m		25	24	31
	Barium	ppm	ASTM D5185m		0	1	0
	Molybdenum	ppm	ASTM D5185m		14	10	14
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		72	91	134
	Calcium	ppm	ASTM D5185m		273	349	389
	Phosphorus	ppm	ASTM D5185m		404	408	434
	Zinc	ppm	ASTM D5185m		458	469	469
	Sulfur	ppm	ASTM D5185m		1793	1619	1675
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.61	0.53	0.69
	Visc @ 40°C	cSt	ASTM D445		42.1	43.2	46.6
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Test Package : MOBCE Contact: RYAN BOWDEN Certificate L2367 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) F: (502)587-8699

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Contact/Location: RYAN BOWDEN - RIVLOU

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