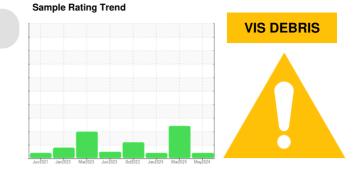


## **OIL ANALYSIS REPORT**





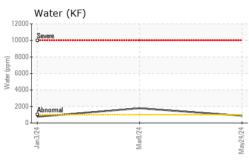
Machine Id 120556-1216 LIEBHERR LH50M 120556-1216 Component Hydraulic System AW HYDRAULIC OIL ISO 46 (--- GAL)

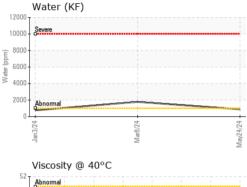
DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		DJJ0022472	DJJ0022507	DJJ0022516
We recommend you service the filters on this	Sample Date		Client Info		24 May 2024	08 Mar 2024	03 Jan 2024
component. Resample at the next service interval to	Machine Age	hrs	Client Info		9944	9578	9096
monitor. We were unable to perform a particle count	Oil Age	hrs	Client Info		0	0	0
due to a high concentration of particles present in this sample.	Oil Changed		Client Info		N/A	Not Changd	Not Changd
	Sample Status				ABNORMAL	ATTENTION	ABNORMAL
Wear All component wear rates are normal.	WEAR METALS		method	limit/base	current	history1	history2
Contamination	Iron	ppm	ASTM D5185m	>60	9	11	10
Moderate concentration of visible dirt/debris present	Chromium	ppm	ASTM D5185m		<1	<1	<1
n the oil.	Nickel	ppm	ASTM D5185m		<1	0	0
luid Condition	Titanium	ppm	ASTM D5185m	210	0	0	0
he AN level is acceptable for this fluid.	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	<u>\</u> 5	<1	0	0
	Lead		ASTM D5185m		0	0	0
		ppm	ASTM D5185m		1	2	1
	Copper Tin	ppm					
		ppm	ASTM D5185m	>0	0	0	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	5	0	0	0
	Barium	ppm	ASTM D5185m	5	0	0	0
	Molybdenum	ppm	ASTM D5185m	5	0	0	<1
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m	25	1	0	0
	Calcium	ppm	ASTM D5185m	200	55	34	27
	Phosphorus	ppm	ASTM D5185m	300	351	289	315
	Zinc	ppm	ASTM D5185m	370	445	337	400
	Sulfur	ppm	ASTM D5185m		1051	890	826
	CONTAMINANTS	S	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
	Sodium	ppm	ASTM D5185m		2	3	<1
	Potassium	ppm	ASTM D5185m	>20	3	0	0
	Water	%	ASTM D6304		0.088	▲ 0.178	0.076
	ppm Water	ppm	ASTM D6304		880	<b>1</b> 780	760
	FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>20000		20969	
	Particles >6µm		ASTM D7647	>5000		3140	
	Particles >14µm		ASTM D7647	>640		91	
	Particles >21µm		ASTM D7647	>160		18	
	Particles >38µm		ASTM D7647			0	
	Particles >71µm		ASTM D7647			0	
	Oil Cleanliness		ISO 4406 (c)			22/19/14	
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.41	0.41	0.41

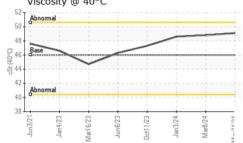
Contact/Location: LARRY BARBER - RIVTRI Page 1 of 2



## **OIL ANALYSIS REPORT**

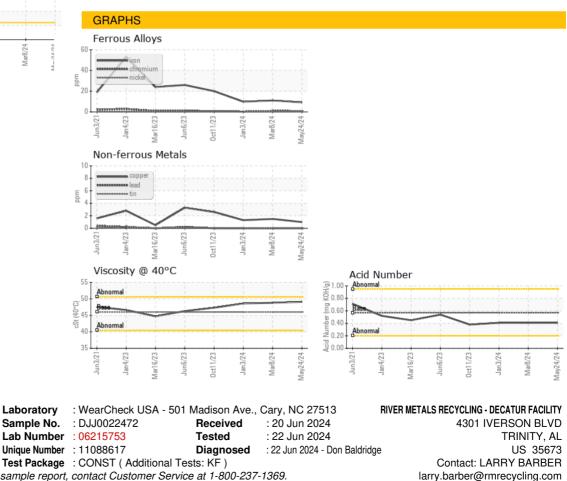






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	LIGHT	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	49.1	48.8	48.6
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				•		
						1 Alexandre

Bottom



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)

Report Id: RIVTRI [WUSCAR] 06215753 (Generated: 06/23/2024 05:56:42) Rev: 1

Certificate 12367

Contact/Location: LARRY BARBER - RIVTRI

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