

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL NORMAL NORMAL

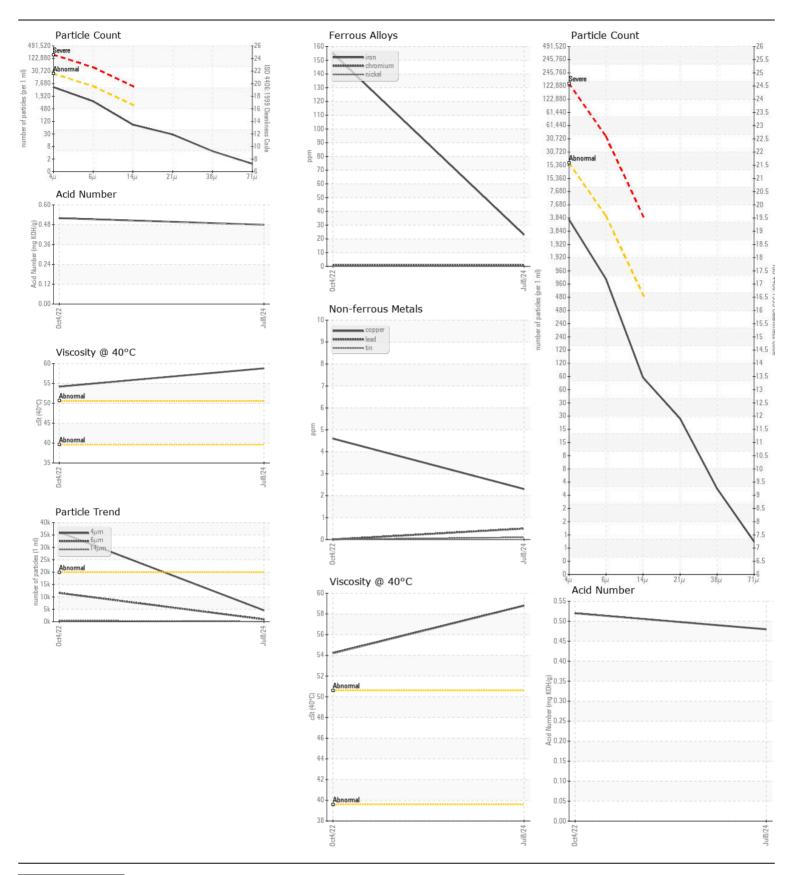


TMR-Riviera Beach 493144 LIEBHERR LH50 119559

Hydraulic System

AMALIE 68W (--- GAL)

Sample Number Client Info D. 0.002327 O. 0.0003319 O. 0.								
Sample at the next service interval to monitor. Sample Date Machine Age Ins Client Info Sul 1294 0 0 0 0 0 0 0 0 0	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age		Sample Number		Client Info		DJJ0023227	DJJ0008319	
Oil Age hrs Client Info S00 0	Resample at the next service interval to monitor.	Sample Date		Client Info		08 Jul 2024	04 Oct 2022	
Filter Age hrs Cilent Info Changed N/A Cilent Info Changed N/A Changed N/A		Machine Age	hrs	Client Info		9235	0	
Name		Oil Age	hrs	Client Info		500	0	
Filter Changed Sample Status		J	hrs	Client Info			0	
Normal Sever Normal Sever Normal Sever Normal Sever Normal Sever Normal Sever Normal Normal		Oil Changed		Client Info		Changed	N/A	
Iron		-		Client Info		_		
Chromium ppm ASTM DS185m 5.5 <1 <1		Sample Status				NORMAL	SEVERE	
Chromium ppm ASTM DS185m 5.5 <1 <1 Nickel ppm ASTM DS185m 5.5 <1 <1 Nickel ppm ASTM DS185m 5.2 <1 <1 Titanium ppm ASTM DS185m <2 <1 <1 O Titanium ppm ASTM DS185m <2 2 2 ASTM DS185m 0 0 0 Autminum ppm ASTM DS185m 5.5 <1 0 Autminum ppm ASTM DS185m 5.5 <2 2 2 2 Copper ppm ASTM DS185m 5.5 <1 0 Copper ppm ASTM DS185m 5.5 <1 0 Vanadium ppm ASTM DS185m 5.5 <1 0 Vanadium ppm ASTM DS185m 1.0 2 5 Vanadium ppm ASTM DS185m NONE NONE Vanadium ppm ASTM DS185m NONE NONE Value Value None None None None Value Value None	WEAR	Iron	nnm	ΔSTM D5185m	>50	23	155	
Nickel ppm ASTM D5185m < 1 0 0 0 0 0 0 0 0 0	WLAN							
Titanium ppm ASTM DS185m 0 0 0 0 0 0 0 0 0	All component wear rates are normal.							
Silver ppm ASTM D61885m 2 2 2 2 2 2 2 2 2					72			
Aluminum ppm ASTM D5185m >2 2 2 2 2 2 2 2 2							-	
Lead					>2			
Copper								
Tin								
Vanadium ppm ASTM D5185m NONE NON								
White Metal Yellow Metal Scalar "Visual NONE NONE NONE NONE NONE NONE NONE NONE NONE					_			
Yellow Metal Scalar Visual NONE N					NONE	-	-	
Silicon ppm ASTM D5185m >17 2 4							_	
Potassium ppm ASTM D5185m >20 2 0								
Water WC Method >0.1 NEG NEG	The system cleanliness is acceptable for your target ISO 4406	Silicon	ppm	ASTM D5185m	>17	2	4	
cleanliness code. The system and fluid cleanliness is acceptable. Particles >4µm		Potassium	ppm	ASTM D5185m	>20	2		
Particles > 6µm ASTM D/847 > 5000 958		Water		WC Method	>0.1	NEG		
Particles >14μm ASTM D7647 >640 73 468		Particles >4μm		ASTM D7647	>20000		<u>▲</u> 36151	
Particles >21 μm		· ·		ASTM D7647	>5000		<u> </u>	
Particles >38μm ASTM D7647 >40 4 2				ASTM D7647	>640			
Particles >71µm								
Oil Cleanliness								
Silt scalar *Visual NONE NORML NORM								
Debris Scalar *Visual NONE NONE NONE NONE Sand/Dirt Scalar *Visual NONE NORML NORM								
Sand/Dirt scalar *Visual NONE NONE NONE								
Appearance Scalar *Visual NORML NORM								
Odor scalar *Visual NORML NORML NORML NORML NORML FLUID CONDITION Sodium ppm ASTM D5185m <1 3 The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. Boron ppm ASTM D5185m 4 7 Molybdenum ppm ASTM D5185m 4 4 Manganese ppm ASTM D5185m <1 2 Magnesium ppm ASTM D5185m <21 2								
Emulsified Water scalar *Visual >0.1 NEG NEG		• •				_		
FLUID CONDITION Sodium ppm ASTM D5185m <1 3 Boron ppm ASTM D5185m 4 7 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 4 4 Manganese ppm ASTM D5185m <1 2 Magnesium ppm ASTM D5185m 23 20								
Boron ppm ASTM D5185m 4 7 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 4 4 Manganese ppm ASTM D5185m 4 4 Magnesium ppm ASTM D5185m 23 20 Magnesium ppm ASTM D5185m 24 Magnesium ppm ASTM D5185m 25		Emuisineu water	Scalai	VISUAI	>0.1	NEG	NEG	
Boron ppm ASTM D5185m 4 7 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 4 4 Manganese ppm ASTM D5185m 4 4 Magnesium ppm ASTM D5185m 23 20 Magnesium ppm ASTM D5185m 24 Magnesium ppm ASTM D5185m 25	FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	3	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 4 4 Manganese ppm ASTM D5185m <1 2 Magnesium ppm ASTM D5185m 23 20	-							
Molybdenum ppm ASTM D5185m 4 4 Manganese ppm ASTM D5185m <1	'						0	
Manganese ppm ASTM D5185m <1							4	
MagnesiumppmASTM D5185m2320		•		ASTM D5185m		<1	2	
		-		ASTM D5185m			20	
Odiolatii ppiii Notiii botooii 407		Calcium	ppm	ASTM D5185m		301	487	
		Phosphorus		ASTM D5185m		370	445	
Zinc ppm ASTM D5185m 471 541		Zinc	ppm	ASTM D5185m		471	541	
Sulfur ppm ASTM D5185m 1134 2799		Sulfur	ppm	ASTM D5185m		1134	2799	
Acid Number (AN) mg KOH/g ASTM D8045 0.48 0.52		Acid Number (AN)	mg KOH/g	ASTM D8045		0.48	0.52	
Visc @ 40°C		Visc @ 40°C	cSt	ASTM D445		58.8	54.2	





Certificate L2367

Laboratory

Sample No. : DJJ0023227 Lab Number : 06235859 Unique Number : 11124693

Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024 **Tested**

: 16 Jul 2024 : 16 Jul 2024 - Wes Davis Diagnosed

TRADEMARK METALS RECYCLING - RIVIERA BEACH 4661 DYER BLVD WEST PALM BEACH, FL

US 33407 Contact: RYAN BOWDEN

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)

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T: