

PROBLEM SUMMARY

Sample Rating Trend

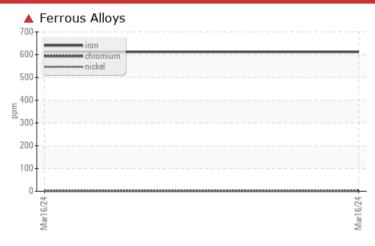
WEAR

Machine Id **145374**

Component Right Steering

LIEBHERR GEAR BASIC 90 LS (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The fluid change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE				
Iron	ppm	ASTM D5185m	>60	▲ 612				

Customer Id: LIEHIA
Sample No.: LM0001042
Lab Number: 06124413
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

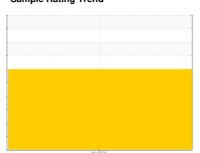
RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.			
Resample			?	We recommend an early resample to monitor this condition.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend





DIAGNOSIS

Machine Id 145374 Component Right Steering

▲ Recommendation

The fluid change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

LIEBHERR GEAR BASIC 90 LS (--- GAL)

▲ Wear

The iron level is severe.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

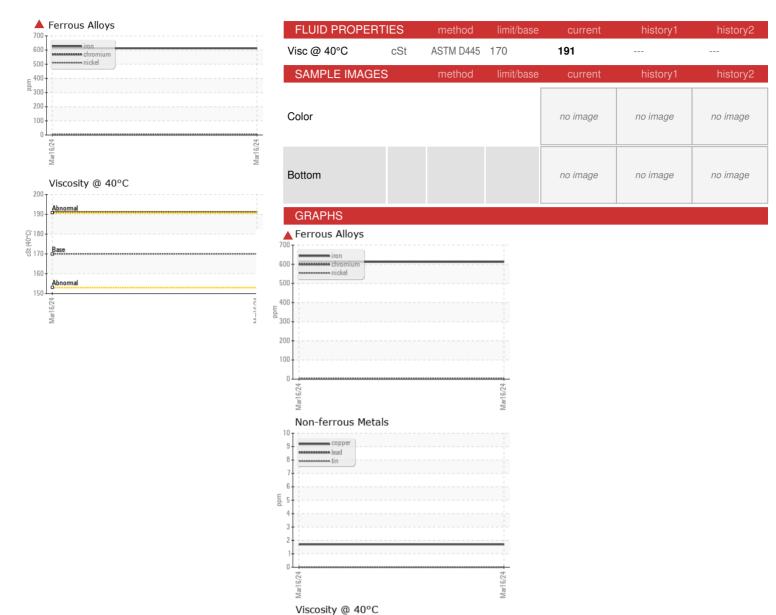
The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

			Mar2024				
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		LM0001042			
Sample Date		Client Info		16 Mar 2024			
Machine Age	hrs	Client Info		5931			
Oil Age	hrs	Client Info		1000			
Oil Changed	1115	Client Info		Changed			
Sample Status		Ciletit iiilo		SEVERE			
•		mathad	limit/base				
CONTAMINATION	N	method	IIIIIVbase	current	history1	history2	
Water		WC Method		NEG			
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>60	▲ 612			
Chromium	ppm	ASTM D5185m	>12	3			
Nickel	ppm	ASTM D5185m	>6	0			
Titanium	ppm	ASTM D5185m		0			
Silver	ppm	ASTM D5185m		0			
Aluminum	ppm	ASTM D5185m	>4	0			
Lead	ppm	ASTM D5185m	>12	0			
Copper	ppm	ASTM D5185m	>30	2			
Tin	ppm	ASTM D5185m		0			
Vanadium	ppm	ASTM D5185m		0			
Cadmium	ppm	ASTM D5185m		0			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0			
Barium	ppm	ASTM D5185m	0	0			
Molybdenum	ppm	ASTM D5185m	0	0			
Manganese	ppm	ASTM D5185m	0	5			
Magnesium	ppm	ASTM D5185m	<1	0			
Calcium	ppm	ASTM D5185m	<1	10			
Phosphorus	ppm	ASTM D5185m	2143	2387			
Zinc	ppm	ASTM D5185m	<1	4			
Sulfur	ppm	ASTM D5185m	23468	32139			
	ρριιι						
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>10	4			
Sodium	ppm	ASTM D5185m		2			
Potassium	ppm	ASTM D5185m	>20	0			
VISUAL		method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE			
Yellow Metal	scalar	*Visual	NONE	NONE			
Precipitate	scalar	*Visual	NONE	NONE			
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		NEG			
Free Water	scalar	*Visual		NEG			
·27·25) Ray: 1	Journal	rioddi			ocation: BONNV		

Contact/Location: RONNY FUNK - LIEHIA



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number : 06124413 Unique Number : 10938564 Test Package : CONST

195

185 180

: LM0001042

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Mar 2024 : 21 Mar 2024 **Tested**

: 23 Mar 2024 - Don Baldridge Diagnosed

LIEBHERR USA CO - Maritime Cranes

15101 NW 112TH AVE HIALEAH GARDENS, FL US 33018

Contact: RONNY FUNK ronny.funk@liebherr.com T: (305)817-7566

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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