

PROBLEM SUMMARY

Sample Rating Trend

WEAR

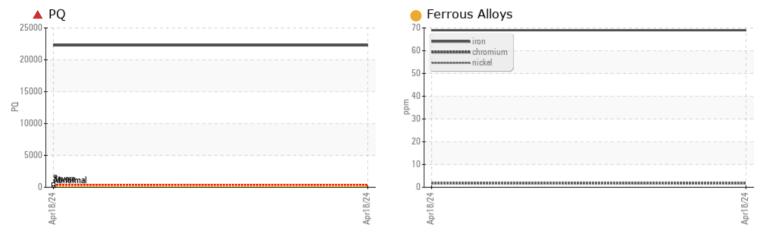
1350 (S/N 71356)

Grease

Machine Id

{not provided} (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend that you re-grease the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type and NLGI grade of the grease on your next sample. Please note that the grease was too thick to perform some of the normal laboratory tests.

PROBLEMATIC TEST RESULTS

Sample Status		SEVERE				
PQ	ASTM D8184 >20	0 🔺 22269				

Customer Id: LIEHOU Sample No.: LH0258673 Lab Number: 06156544 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By				
Resample			?				
Alert			?				

Description

We recommend an early resample to monitor this condition.

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment.

HISTORICAL DIAGNOSIS



GREASE ANALYSIS

WEAR

Machine Id **1350** (S/N 71356) Component

Grease Fluid

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend that you re-grease the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type and NLGI grade of the grease on your next sample. Please note that the grease was too thick to perform some of the normal laboratory tests.

A Wear

PQ levels are severe. Nickel ppm levels are noted. The very high ferrous density (PQ) index indicates that severe wear is occurring.

Grease Condition

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

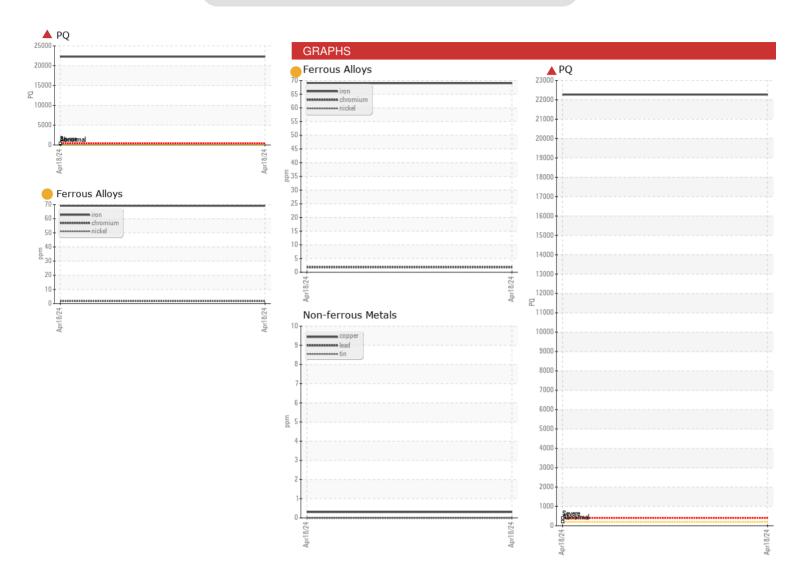
Contaminants

There is no indication of any contamination in the grease.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LH0258673		
Sample Date		Client Info		18 Apr 2024		
Machine Age	hrs	Client Info		0		
Grease Age	hrs	Client Info		0		
Grease Serviced		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	22269		
Iron	ppm	ASTM D5185m	>250	69		
Chromium	ppm	ASTM D5185m	>10	2		
Nickel	ppm	ASTM D5185m	>5	<u> </u>		
Cadmium	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		<1		
Vanadium	ppm	ASTM D5185m		0		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>75	<1		
Tin	ppm	ASTM D5185m	>5	0		
Silver	ppm	ASTM D5185m	>5	0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4		
Magnesium	ppm	ASTM D5185m		3		
Manganese	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		2		
Phosphorus	ppm	ASTM D5185m		10		
Zinc	ppm	ASTM D5185m		22		
THICKENER/SOA	۱P	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m		10		
Barium	ppm	ASTM D5185m		3		
Calcium	ppm	ASTM D5185m		63		
Sodium	ppm	ASTM D5185m		50		
Lithium	ppm	ASTM D5185m		8		
Sulfur	ppm	ASTM D5185m		140		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>150	46		
Potassium	ppm	ASTM D5185m		20		
Water	%	ASTM D6304	>0.1	NEG		
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				- 6	no image	no image
Bottom					no image	no image

LIEBHERR

GREASE ANALYSIS



LIEBHERR CRANE INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : LH0258673 Received 7075 BENNINGTON ST : 22 Apr 2024 Lab Number : 06156544 Tested : 26 Apr 2024 HOUSTON, TX Unique Number : 10991967 Diagnosed : 26 Apr 2024 - Angela Borella US 77028 Test Package : CONST (Additional Tests: KF, PQ) Contact: RANDY BLUM Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. randy.blum@liebherr.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (713)636-4000 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (713)636-4039

Contact/Location: RANDY BLUM - LIEHOU