

Machine Id
1350 (S/N 71356)
 Component
Grease
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please submit a sample of the new (unused) grease to establish a baseline.

Wear

All component wear rates are normal.

Grease Condition

The condition of the grease is acceptable for the time in service.

Contaminants

Elemental level of silicon (Si) above normal.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		LH0258672	LH0258673	---
Sample Date	Client Info		22 Apr 2024	18 Apr 2024	---
Machine Age	hrs	Client Info	0	0	---
Grease Age	hrs	Client Info	0	0	---
Grease Serviced	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	SEVERE	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184	>200	21	▲ 22269	---
Iron	ppm	ASTM D5185m	>250	13	69
Chromium	ppm	ASTM D5185m	>10	0	2
Nickel	ppm	ASTM D5185m	>5	0	● 2
Cadmium	ppm	ASTM D5185m	<1	0	---
Titanium	ppm	ASTM D5185m	<1	<1	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Lead	ppm	ASTM D5185m	>25	4	0
Copper	ppm	ASTM D5185m	>75	<1	<1
Tin	ppm	ASTM D5185m	>5	0	0
Silver	ppm	ASTM D5185m	>5	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		112	4
Magnesium	ppm	ASTM D5185m		4	3
Manganese	ppm	ASTM D5185m		<1	<1
Molybdenum	ppm	ASTM D5185m		843	2
Phosphorus	ppm	ASTM D5185m		103	10
Zinc	ppm	ASTM D5185m		72	22

THICKENER/SOAP

	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m		23	10
Barium	ppm	ASTM D5185m		40	3
Calcium	ppm	ASTM D5185m		788	63
Sodium	ppm	ASTM D5185m		7	50
Lithium	ppm	ASTM D5185m		302	8
Sulfur	ppm	ASTM D5185m		3357	140

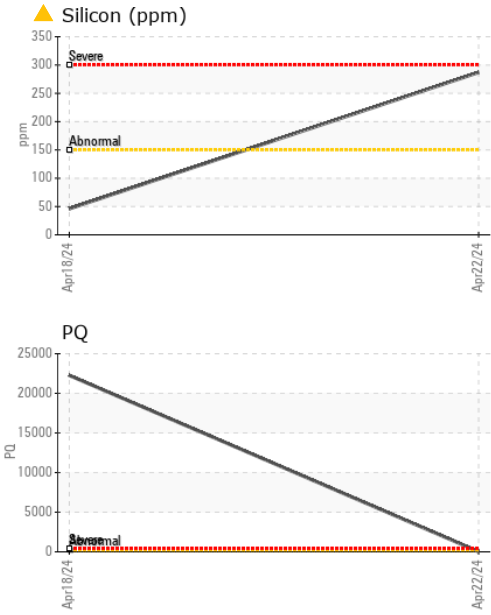
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>150	▲ 287	46
Potassium	ppm	ASTM D5185m		3	20
Water	%	ASTM D6304	>0.1	NEG	NEG

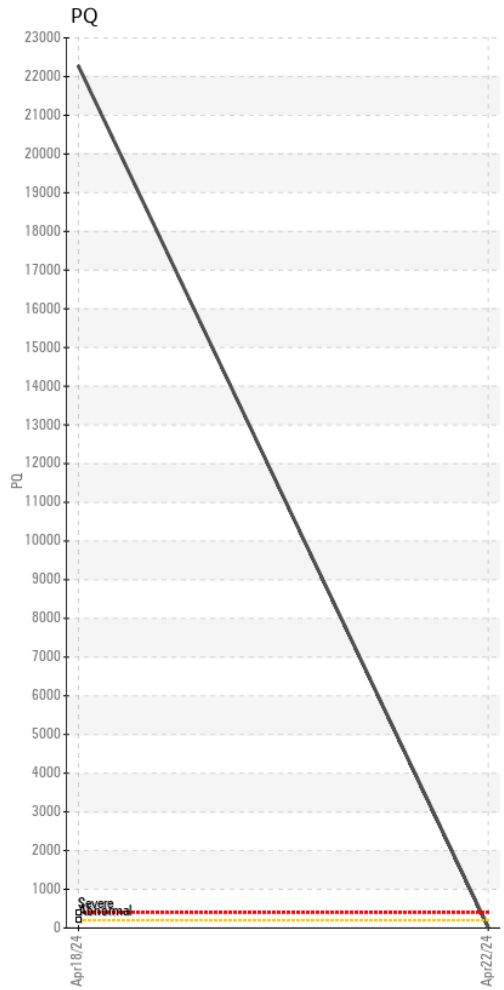
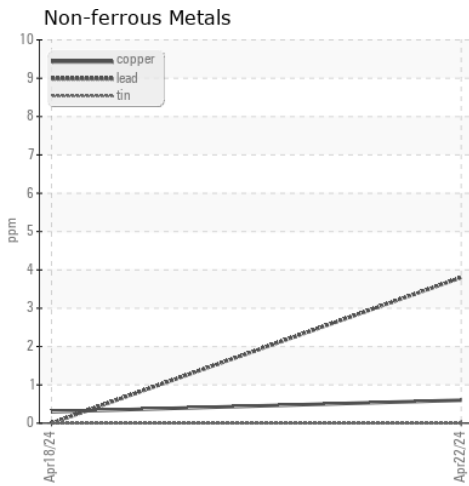
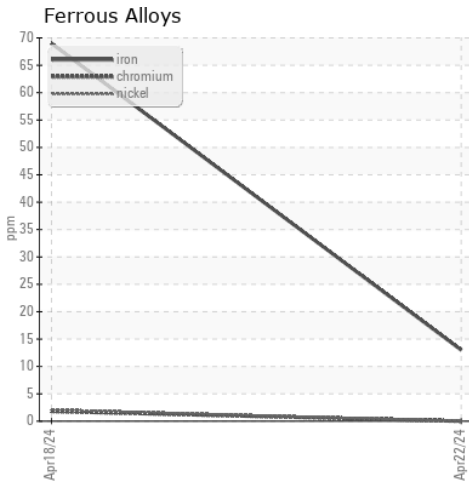
SAMPLE IMAGES

	method	limit/base	current	history1	history2
Color					no image
Bottom					no image

GREASE ANALYSIS



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH0258672 **Received** : 22 Apr 2024
Lab Number : 06156543 **Tested** : 29 Apr 2024
Unique Number : 10991966 **Diagnosed** : 29 Apr 2024 - Doug Bogart
Test Package : CONST (Additional Tests: KF, PQ)

LIEBHERR CRANE INC
 7075 BENNINGTON ST
 HOUSTON, TX
 US 77028
 Contact: DANIEL LACASA
 daniel.lacasa@liebherr.com

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: (713)636-4039