

PROBLEM SUMMARY

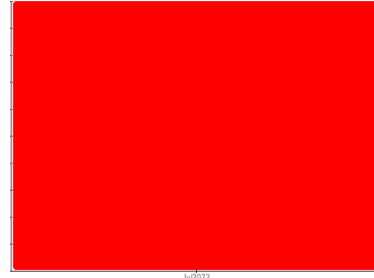
Sample Rating Trend

WEAR

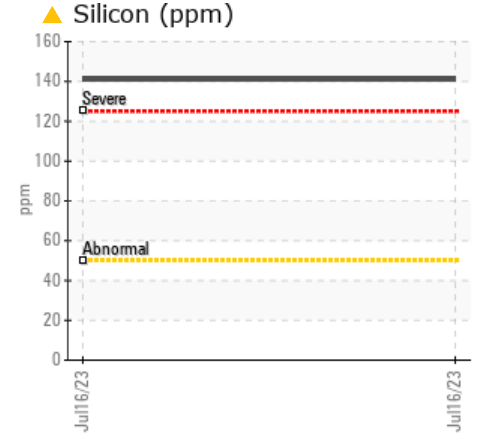
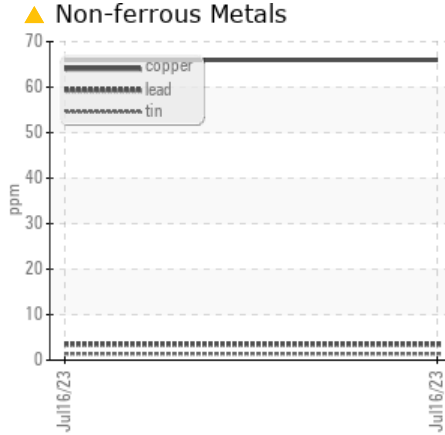
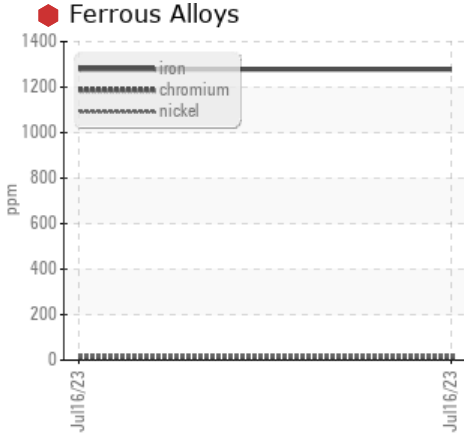
Machine Id
REC CRANE

Component
Hoisting Gearbox

Fluid
SCHAEFFER MOLY FULL SYN GEAR OIL (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>150	1278	---	---
Chromium	ppm	ASTM D5185m	>10	12	---	---
Nickel	ppm	ASTM D5185m	>10	18	---	---
Copper	ppm	ASTM D5185m	>50	66	---	---
Silicon	ppm	ASTM D5185m	>50	141	---	---

Customer Id: NATEAS
Sample No.: PCA0100297
Lab Number: 05900107
Test Package: IND 2



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

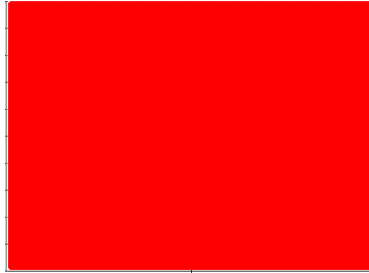
Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
REC CRANE

Component
Hoisting Gearbox

Fluid
SCHAEFFER MOLY FULL SYN GEAR OIL (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Iron ppm levels are severe. Nickel, chromium and copper ppm levels are abnormal. Gear wear is indicated. Bearing and/or bushing wear is indicated.

Contamination

There is a moderate concentration of dirt present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0100297	---	---
Sample Date	Client Info	16 Jul 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		SEVERE	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>150	1278	---	---
Chromium ppm ASTM D5185m	>10	12	---	---
Nickel ppm ASTM D5185m	>10	18	---	---
Titanium ppm ASTM D5185m		2	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m	>25	17	---	---
Lead ppm ASTM D5185m	>100	4	---	---
Copper ppm ASTM D5185m	>50	66	---	---
Tin ppm ASTM D5185m	>10	1	---	---
Vanadium ppm ASTM D5185m		<1	---	---
Cadmium ppm ASTM D5185m		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		9	---	---
Barium ppm ASTM D5185m		0	---	---
Molybdenum ppm ASTM D5185m		65	---	---
Manganese ppm ASTM D5185m		11	---	---
Magnesium ppm ASTM D5185m		20	---	---
Calcium ppm ASTM D5185m		65	---	---
Phosphorus ppm ASTM D5185m		701	---	---
Zinc ppm ASTM D5185m		69	---	---
Sulfur ppm ASTM D5185m		20530	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	141	---	---
Sodium ppm ASTM D5185m		5	---	---
Potassium ppm ASTM D5185m	>20	4	---	---

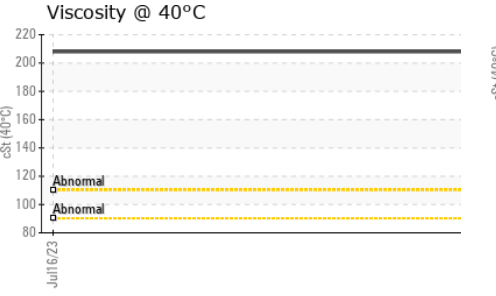
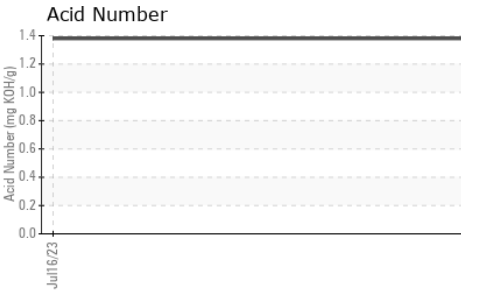
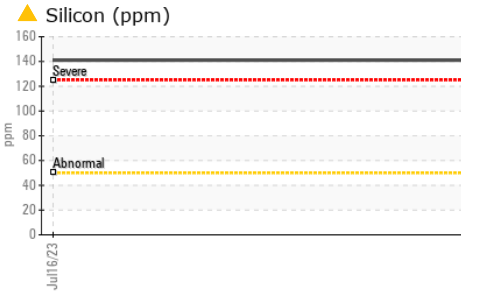
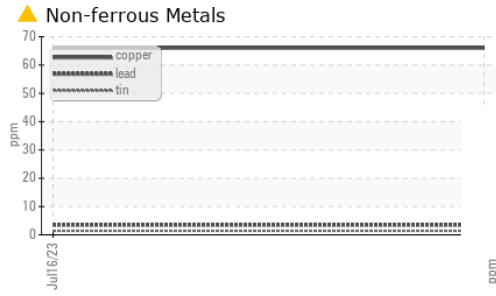
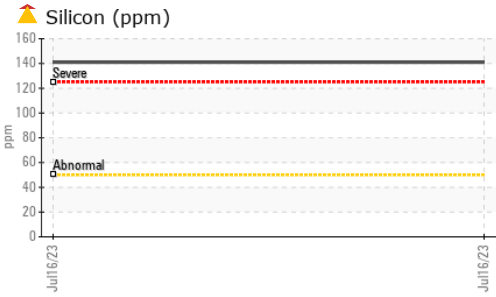
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		1.38	---	---


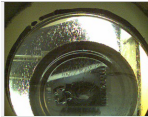
VISUAL

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	>0.1	NEG	---	---
Free Water scalar *Visual		NEG	---	---

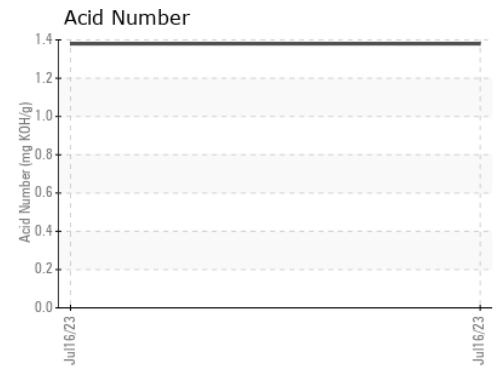
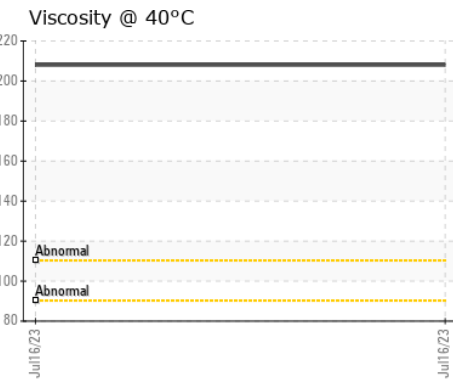
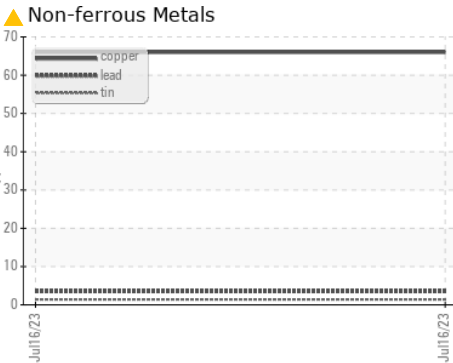
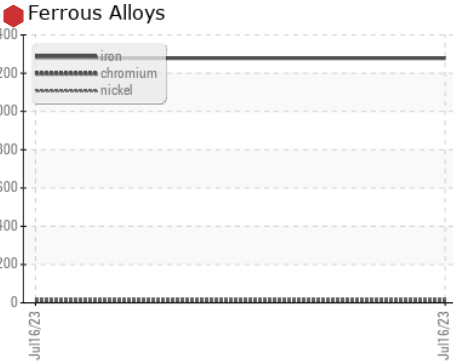
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		208	---	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100297
Lab Number : 05900107
Unique Number : 10561463
Test Package : IND 2

Received : 17 Jul 2023
Diagnosed : 18 Jul 2023
Diagnostician : Angela Borella

NATIONAL MATERIAL PROCESSING
 4506 CLINE AVE
 EAST CHICAGO, IN
 US 46312
 Contact: RYAN CANO
 rcano@nmlp.com

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)

T:
F: