

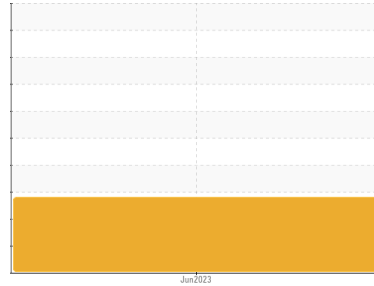
PROBLEM SUMMARY

Sample Rating Trend

WEAR

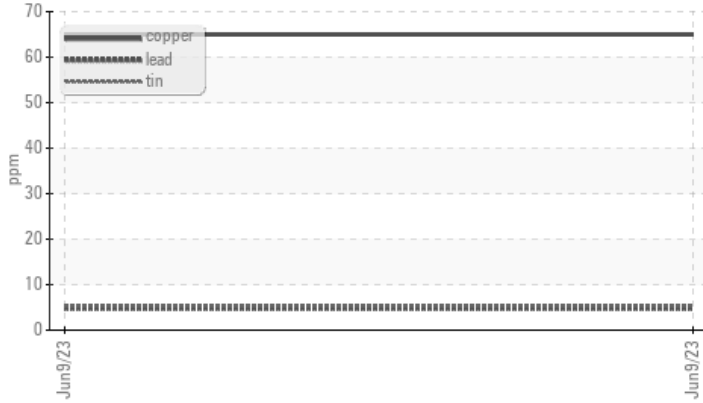


Machine Id
SCALE COIL CAR
 Component
Hydraulic System
 Fluid
MDI AW 46 (--- GAL)

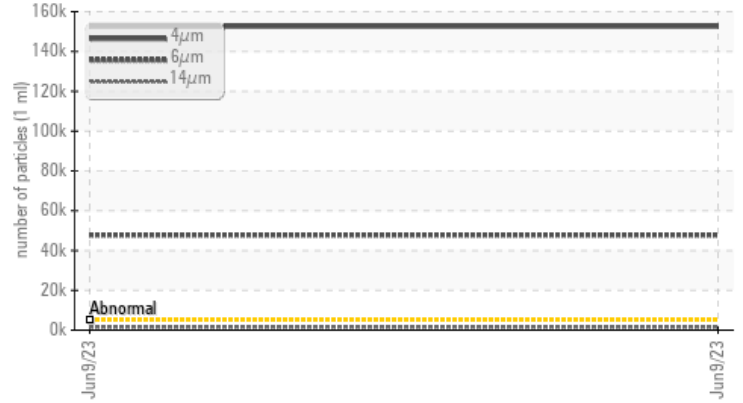


COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	---	---
Copper ppm	▲ 65	---	---
Particles >4µm	▲ 152566	---	---
Particles >6µm	▲ 47740	---	---
Particles >14µm	▲ 14866	---	---
Particles >21µm	▲ 288	---	---
Oil Cleanliness	▲ 24/23/18	---	---

Customer Id: NATEAS
 Sample No.: PCA0100284
 Lab Number: 05872656
 Test Package: IND 2



To manage this report scan the QR code

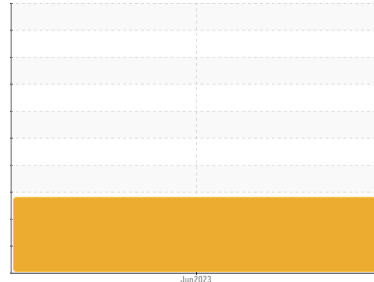
To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS



Machine Id
SCALE COIL CAR
 Component
Hydraulic System
 Fluid
MDI AW 46 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info	PCA0100284	---	---
Sample Date	Client Info	09 Jun 2023	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>20	5	---	---
Chromium	ppm	ASTM D5185m	>20	0	---	---
Nickel	ppm	ASTM D5185m	>20	<1	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>20	0	---	---
Lead	ppm	ASTM D5185m	>20	5	---	---
Copper	ppm	ASTM D5185m	>20	▲ 65	---	---
Tin	ppm	ASTM D5185m	>20	5	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
Cadmium	ppm	ASTM D5185m		0	---	---

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185m		2	---	---
Barium	ppm	ASTM D5185m		<1	---	---
Molybdenum	ppm	ASTM D5185m		5	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		32	---	---
Calcium	ppm	ASTM D5185m		124	---	---
Phosphorus	ppm	ASTM D5185m		379	---	---
Zinc	ppm	ASTM D5185m		489	---	---
Sulfur	ppm	ASTM D5185m		2827	---	---

CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>15	2	---	---
Sodium	ppm	ASTM D5185m		0	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---

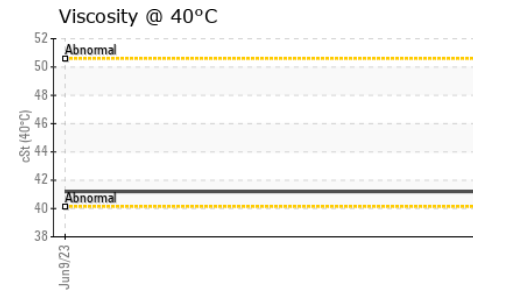
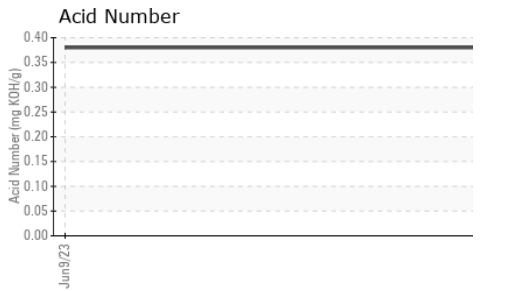
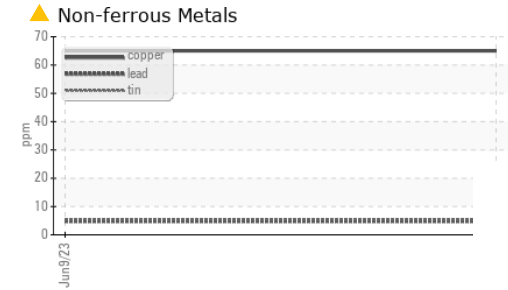
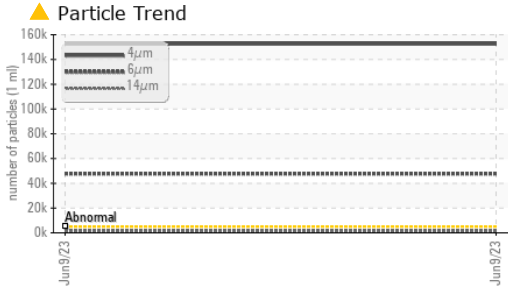
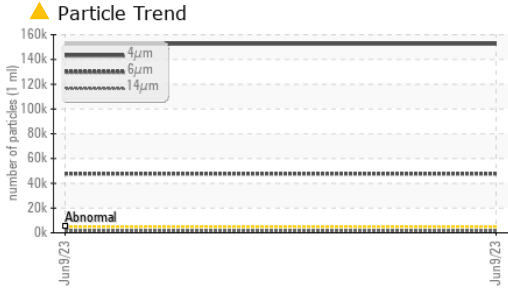
FLUID CLEANLINESS method limit/base current history1 history2

Particles >4µm	ASTM D7647	>5000	▲ 152566	---	---
Particles >6µm	ASTM D7647	>1300	▲ 47740	---	---
Particles >14µm	ASTM D7647	>160	▲ 1486	---	---
Particles >21µm	ASTM D7647	>40	▲ 288	---	---
Particles >38µm	ASTM D7647	>10	5	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 24/23/18	---	---

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D8045		0.38	---	---
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OIL ANALYSIS REPORT



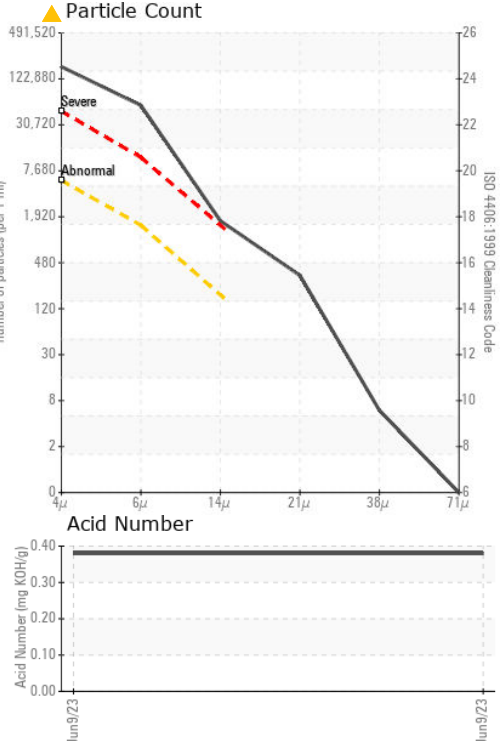
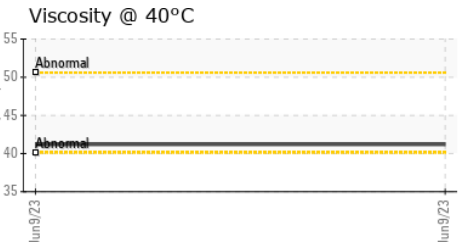
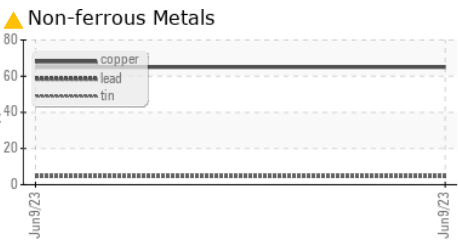
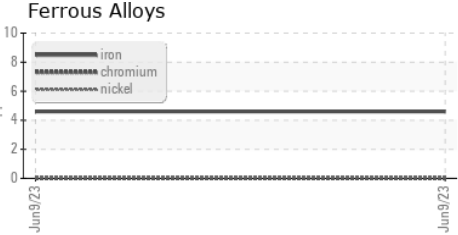
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	41.2	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100284 **Received** : 13 Jun 2023
Lab Number : 05872656 **Diagnosed** : 15 Jun 2023
Unique Number : 10512440 **Diagnostician** : Don Baldrige
Test Package : IND 2

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

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)