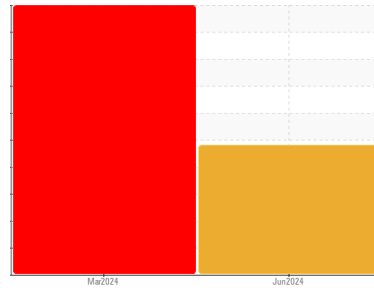


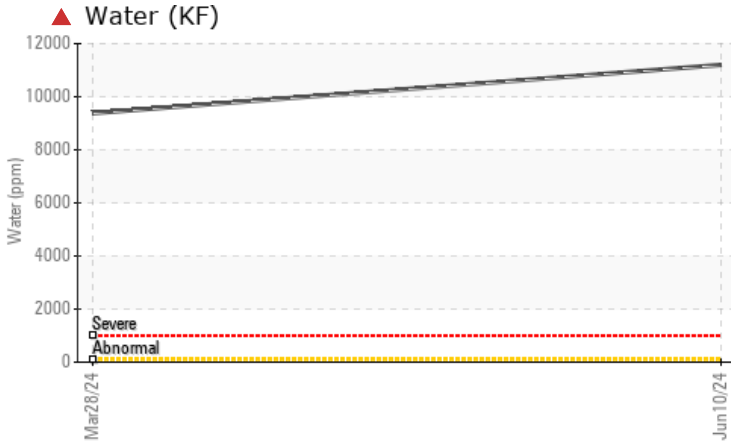
PROBLEM SUMMARY

Machine Id
N/a DNL FEEDSTOCK 001
 Component
Machining Fluid
 Fluid
Benz multicut and Fuchs wisura (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this machining fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Customer Sample Comment: Used oil - Benz multicut and Fuchs wisura)

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	---
Water	%	ASTM D6304		▲ 1.12	▲ 0.938	---
ppm Water	ppm	ASTM D6304		▲ 11200	▲ 9380	---
Silt	scalar	*Visual	NONE	▲ MODER	▲ HEAVY	---
Emulsified Water	scalar	*Visual		▲ 0.2%	▲ 0.2%	---

Customer Id: UCDANLAF
 Sample No.: FCH0000097
 Lab Number: 06207745
 Test Package: PLANT



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
Resample	---	---	?	We recommend an early resample to monitor this condition. Please submit a sample of the new (unused) oil to establish a baseline.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.
Filter Fluid	---	---	?	We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this machining fluid.

HISTORICAL DIAGNOSIS

ISO



28 Mar 2024 Diag: Jonathan Hester

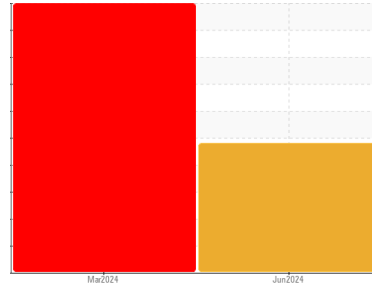
We advise that you check for the source of water entry. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for laboratory data updates to add particle count. All component wear rates are normal. There is a high amount of particulates present in the machining fluid. There is a high concentration of water present in the machining fluid. There is a high amount of visible silt present in the sample. The AN level is acceptable for this fluid.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
N/a DNL FEEDSTOCK 001
Component
Machining Fluid
Fluid
Benz multicut and Fuchs wisura (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this machining fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. (Customer Sample Comment: Used oil - Benz multicut and Fuchs wisura)

Wear

All component wear rates are normal.

▲ Contamination

Appearance is hazy. There is a high concentration of water present in the machining fluid. There is a moderate amount of visible silt present in the sample.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			FCH0000097	FCH0000041	---
Sample Date	Client Info			10 Jun 2024	28 Mar 2024	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				SEVERE	SEVERE	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		50	122	---
Chromium	ppm	ASTM D5185m		<1	<1	---
Nickel	ppm	ASTM D5185m		<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		2	0	---
Lead	ppm	ASTM D5185m		<1	0	---
Copper	ppm	ASTM D5185m		1	0	---
Tin	ppm	ASTM D5185m		<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

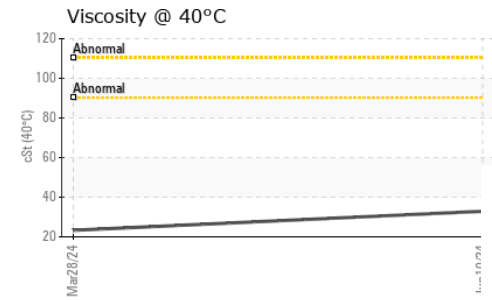
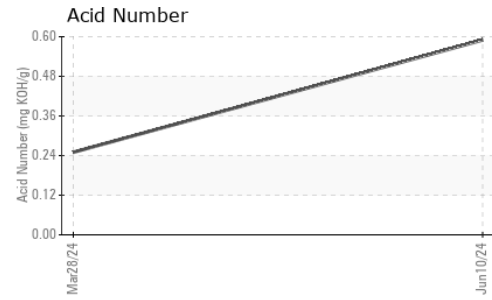
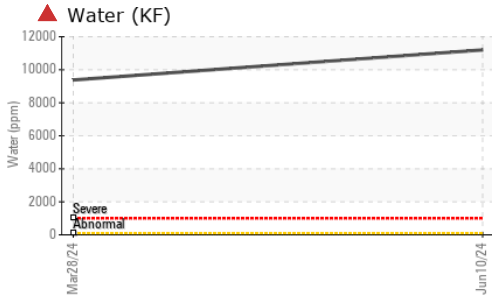
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	0	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		4	18	---
Magnesium	ppm	ASTM D5185m		6	<1	---
Calcium	ppm	ASTM D5185m		1656	180	---
Phosphorus	ppm	ASTM D5185m		72	19	---
Zinc	ppm	ASTM D5185m		32	0	---
Sulfur	ppm	ASTM D5185m		8029	8582	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		3	4	---
Sodium	ppm	ASTM D5185m		7	2	---
Potassium	ppm	ASTM D5185m	>20	5	2	---
Water	%	ASTM D6304		▲ 1.12	▲ 0.938	---
ppm Water	ppm	ASTM D6304		▲ 11200	▲ 9380	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	---	▲ 60063	---
Particles >6µm		ASTM D7647	>1300	---	▲ 32719	---
Particles >14µm		ASTM D7647	>160	---	▲ 5568	---
Particles >21µm		ASTM D7647	>40	---	▲ 1876	---
Particles >38µm		ASTM D7647	>10	---	▲ 290	---
Particles >71µm		ASTM D7647	>3	---	▲ 30	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	▲ 23/22/20	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.59	0.25	---

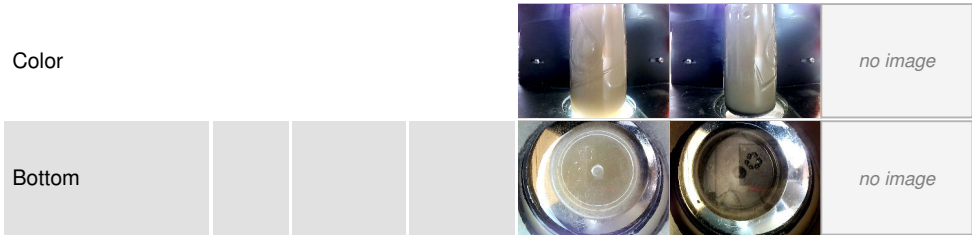
OIL ANALYSIS REPORT



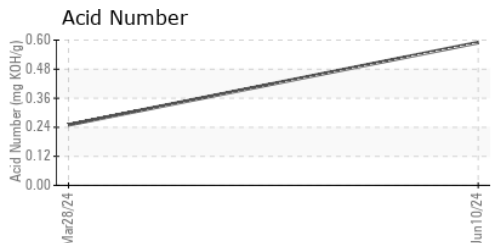
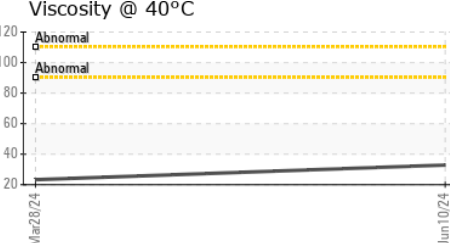
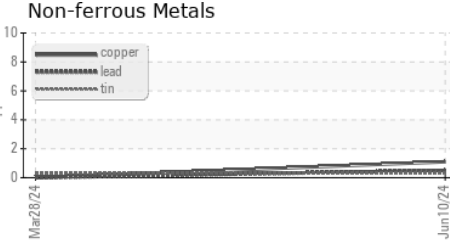
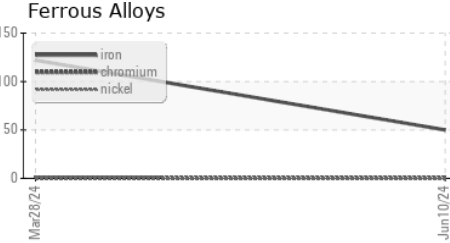
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	▲ MODER	▲ HEAVY	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	● MILKY	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	▲ 0.2%	▲ 0.2%	---
Free Water	scalar	*Visual	NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.9	23.3	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : FCH0000097
Lab Number : 06207745
Unique Number : 11075206
Test Package : PLANT

DANA - FAIRFIELD CUSTOM GEARS AND DRIVES
 2400 SAGAMORE PKWY S #2400
 LAFAYETTE, IN
 US 47905
 Contact: Service Manager
 Jeffrey.Alexander@fuchs.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: