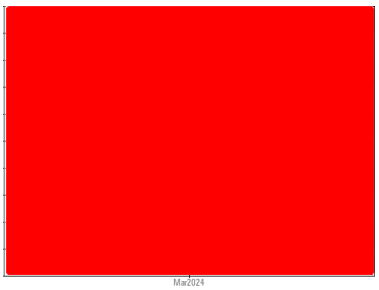
PROBLEM SUMMARY

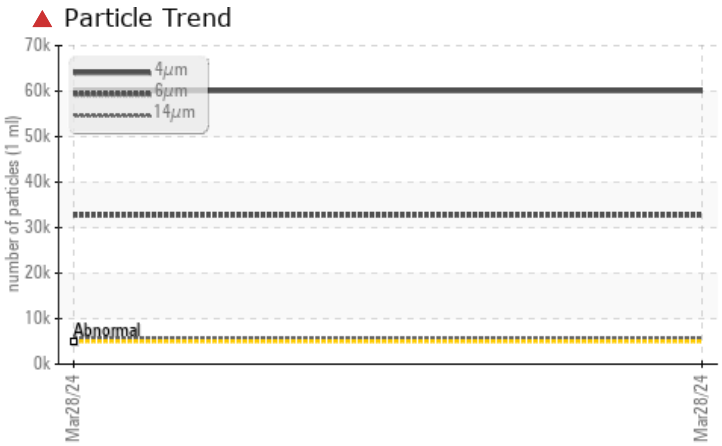
Sample Rating Trend

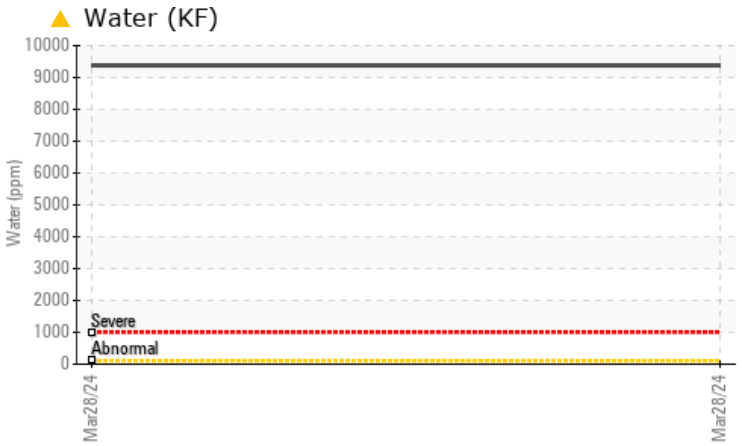


ISO

Machine Id
N/a DNL FEEDSTOCK 001
Component
Machining Fluid
Fluid
{not provided} (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

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. (Customer Sample Comment: Benz multicut 994)

PROBLEMATIC TEST RESULTS

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

Customer Id: UCDANLAF
Sample No.: FCH0000041
Lab Number: 06135129
Test Package: PLANT

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

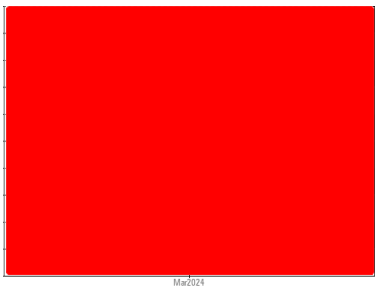
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
N/a DNL FEEDSTOCK 001
Component
Machining Fluid
Fluid
{not provided} (--- GAL)

DIAGNOSIS

▲ Recommendation
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. (Customer Sample Comment: Benz multicut 994)

Wear
All component wear rates are normal.

▲ Contamination
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.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**FCH0000041**	---	---
Sample Date		Client Info		**28 Mar 2024**	---	---
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
PQ		ASTM D8184		**42**	---	---
Iron	ppm	ASTM D5185m		**122**	---	---
Chromium	ppm	ASTM D5185m		**<1**	---	---
Nickel	ppm	ASTM D5185m		**<1**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m		**0**	---	---
Lead	ppm	ASTM D5185m		**0**	---	---
Copper	ppm	ASTM D5185m		**0**	---	---
Tin	ppm	ASTM D5185m		**<1**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**0**	---	---
Manganese	ppm	ASTM D5185m		**18**	---	---
Magnesium	ppm	ASTM D5185m		**<1**	---	---
Calcium	ppm	ASTM D5185m		**180**	---	---
Phosphorus	ppm	ASTM D5185m		**19**	---	---
Zinc	ppm	ASTM D5185m		**0**	---	---
Sulfur	ppm	ASTM D5185m		**8582**	---	---

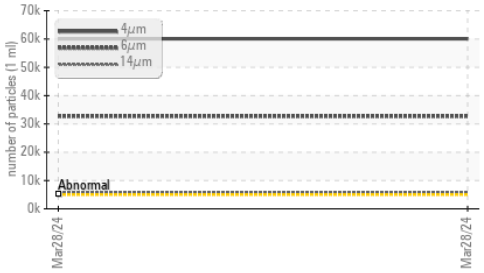
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**4**	---	---
Sodium	ppm	ASTM D5185m		**2**	---	---
Potassium	ppm	ASTM D5185m	>20	**2**	---	---
Water	%	ASTM D6304		▲ **0.938**	---	---
ppm Water	ppm	ASTM D6304		▲ **9380**	---	---

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**	---	---

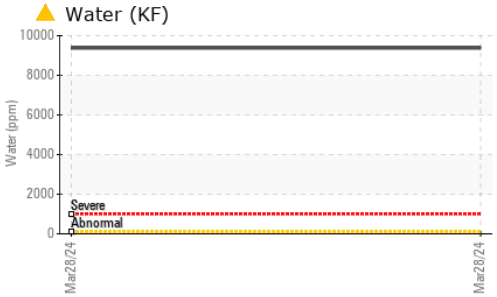
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.25**	---	---

OIL ANALYSIS REPORT

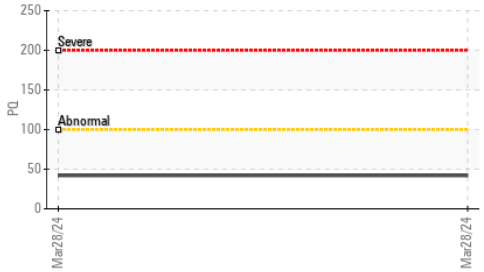
Particle Trend



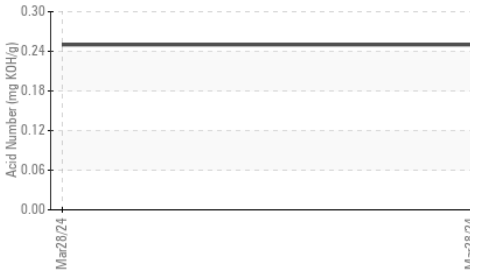
Water (KF)



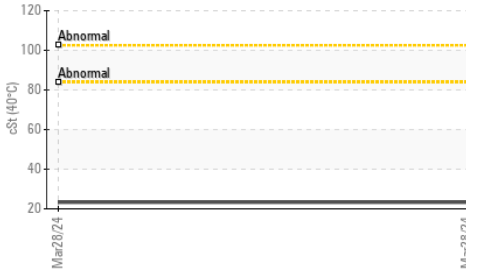
PQ



Acid Number



Viscosity @ 40°C



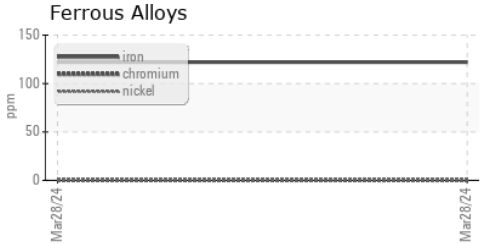
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	▲ **HEAVY**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar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

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

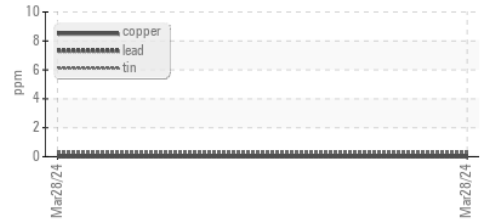
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

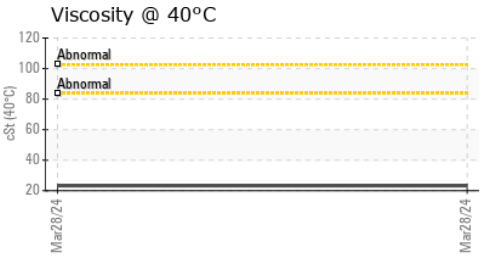
Ferrous Alloys



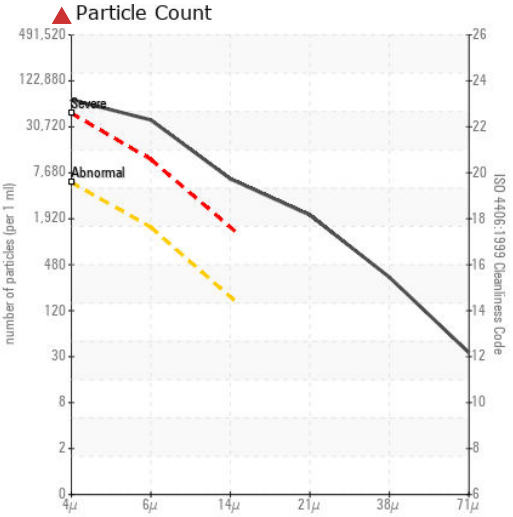
Non-ferrous Metals



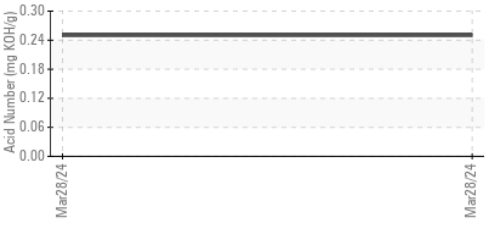
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : FCH0000041
Lab Number : 06135129
Unique Number : 10954594
Test Package : PLANT

Received : 01 Apr 2024
Tested : 05 Apr 2024
Diagnosed : 05 Apr 2024 - Jonathan Hester

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

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)

T:
F:

Report Id: UCDANLAF [WUSCAR] 06135129 (Generated: 04/05/2024 12:34:02) Rev: 2

Submitted By: GODWIN GEORGE