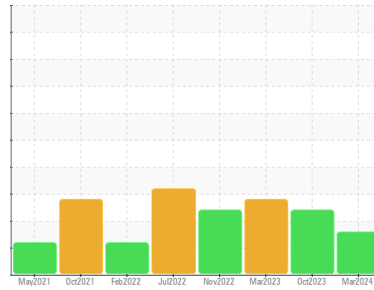




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
DICK LAVY
 Machine Id
DICK LAVY 4833
 Component
Transmission (Manual)
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0900780	WC0853951	WC0815542
Sample Date	Client Info		04 Mar 2024	02 Oct 2023	28 Mar 2023
Machine Age	mls	Client Info	418956	358106	299474
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	67	57	178
Chromium	ppm	ASTM D5185m >5	<1	<1	2
Nickel	ppm	ASTM D5185m >5	0	<1	<1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m >7	0	0	0
Aluminum	ppm	ASTM D5185m >25	3	4	16
Lead	ppm	ASTM D5185m >45	<1	<1	<1
Copper	ppm	ASTM D5185m >225	49	30	▲ 247
Tin	ppm	ASTM D5185m >10	<1	<1	<1
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	23	15	263
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	1	4
Manganese	ppm	ASTM D5185m	17	16	26
Magnesium	ppm	ASTM D5185m	3	2	2
Calcium	ppm	ASTM D5185m	839	755	182
Phosphorus	ppm	ASTM D5185m	805	650	1259
Zinc	ppm	ASTM D5185m	6	12	41
Sulfur	ppm	ASTM D5185m	5177	3817	1120

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >125	59	48	8
Sodium	ppm	ASTM D5185m	4	2	0
Potassium	ppm	ASTM D5185m >20	2	2	2
Water	%	ASTM D6304 >0.1	0.020	0.030	0.052
ppm Water	ppm	ASTM D6304 >1000	204	300.4	529.8

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 31933	▲ 33821	▲ 36770
Particles >6µm	ASTM D7647	>2500	● 4973	▲ 4028	2470
Particles >14µm	ASTM D7647	>320	● 370	▲ 721	24
Particles >21µm	ASTM D7647	>80	90	▲ 390	3
Particles >38µm	ASTM D7647	>20	2	▲ 40	0
Particles >71µm	ASTM D7647	>4	0	3	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 22/19/16	▲ 22/19/17	▲ 22/18/12

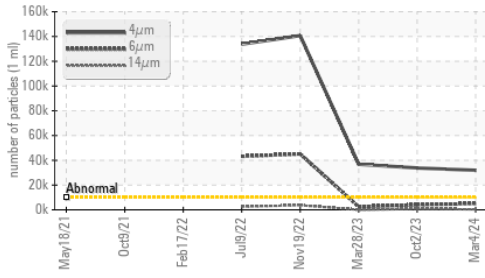
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.55	0.54	▲ 3.38

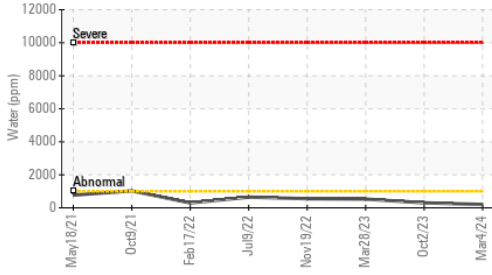


OIL ANALYSIS REPORT

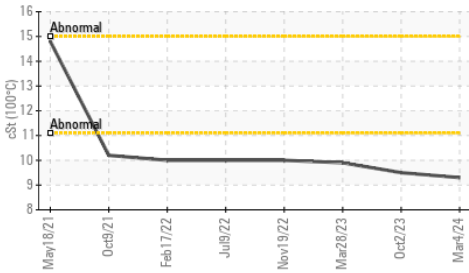
Particle Trend



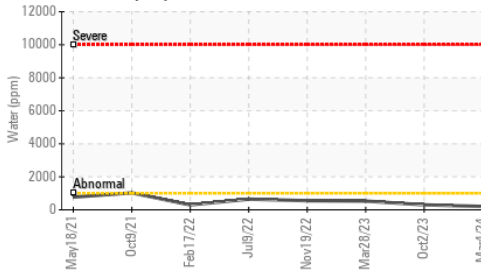
Water (KF)



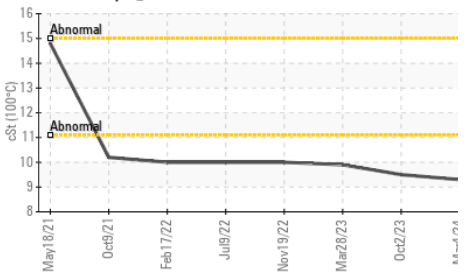
Viscosity @ 100°C



Water (KF)



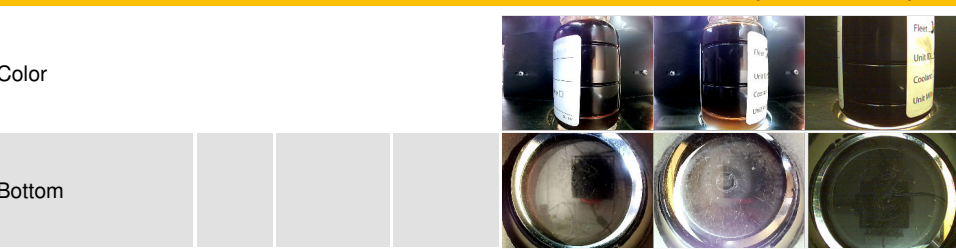
Viscosity @ 100°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	LIGHT	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

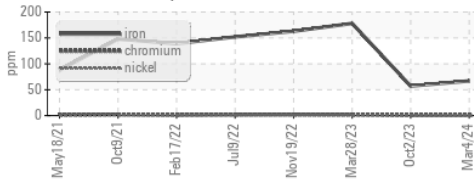
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	54.6	55.7	56.9
Visc @ 100°C	cSt	ASTM D445	9.3	9.5	9.9
Viscosity Index (VI)	Scale	ASTM D2270	153	154	161

SAMPLE IMAGES

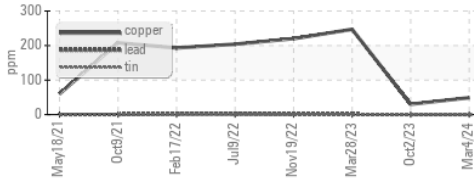


GRAPHS

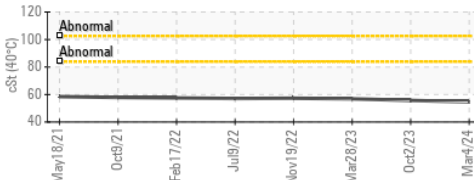
Ferrous Alloys



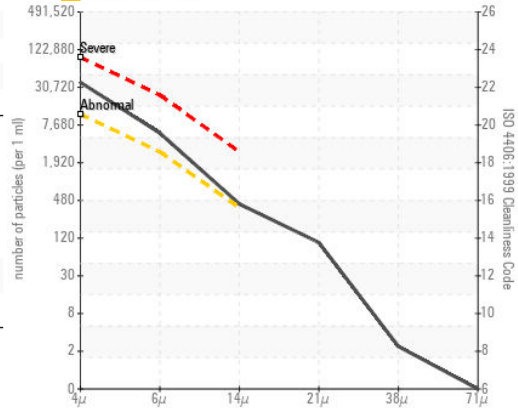
Non-ferrous Metals



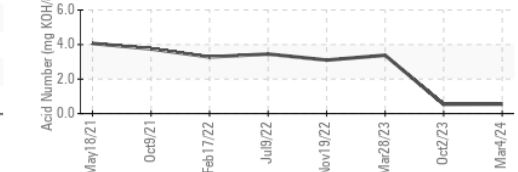
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900780 **Received** : 18 Apr 2024
Lab Number : 06153105 **Tested** : 19 Apr 2024
Unique Number : 10983183 **Diagnosed** : 22 Apr 2024 - Angela Borella
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

BASF - GIANNA CREDAROLI
 500 WHITE PLAINS RD
 TARRYTOWN, NY
 US 10591
 Contact: GIANNA CREDAROLI
 gianna.credaroli@basf.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: