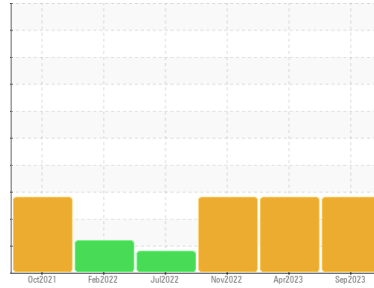




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
DICK LAVY
Machine Id
DICK LAVY 4836
Component
Transmission (Manual)
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

The iron level is abnormal. The copper level is abnormal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) 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		WC0853954	WC0815544	WC0765813
Sample Date	Client Info		08 Sep 2023	22 Apr 2023	20 Nov 2022
Machine Age	mls	Client Info	292683	243556	194518
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	▲ 199	▲ 215	▲ 209
Chromium	ppm	ASTM D5185m >5	3	3	3
Nickel	ppm	ASTM D5185m >5	<1	<1	1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m >7	0	0	0
Aluminum	ppm	ASTM D5185m >25	12	12	12
Lead	ppm	ASTM D5185m >45	7	<1	<1
Copper	ppm	ASTM D5185m >225	▲ 269	▲ 281	▲ 242
Tin	ppm	ASTM D5185m >10	<1	<1	<1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	216	258	220
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	2	2	2
Manganese	ppm	ASTM D5185m	24	28	27
Magnesium	ppm	ASTM D5185m	2	2	2
Calcium	ppm	ASTM D5185m	183	220	221
Phosphorus	ppm	ASTM D5185m	1089	1251	1202
Zinc	ppm	ASTM D5185m	28	18	17
Sulfur	ppm	ASTM D5185m	885	1365	1214

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >125	15	14	17
Sodium	ppm	ASTM D5185m	3	0	2
Potassium	ppm	ASTM D5185m >20	4	2	2
Water	%	ASTM D6304 >0.1	0.058	0.048	0.060
ppm Water	ppm	ASTM D6304 >1000	587.7	484.0	608.6

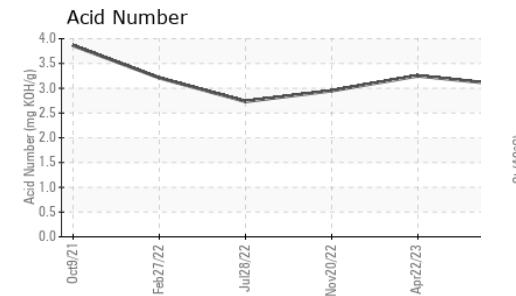
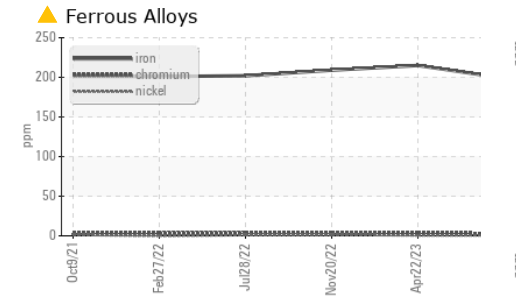
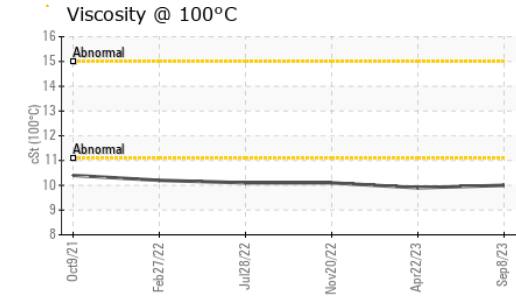
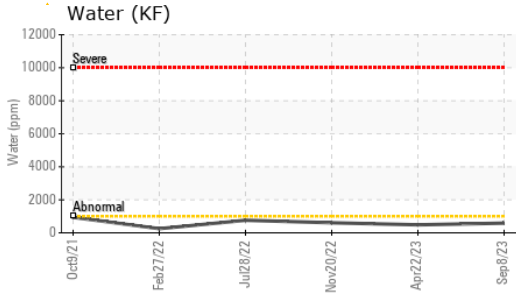
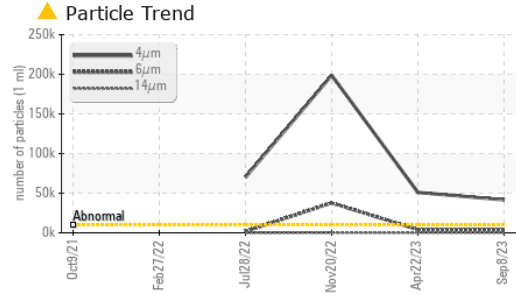
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 41594	▲ 50947	▲ 198848
Particles >6µm	ASTM D7647	>2500	▲ 4155	▲ 3877	▲ 37700
Particles >14µm	ASTM D7647	>320	71	70	199
Particles >21µm	ASTM D7647	>80	20	14	25
Particles >38µm	ASTM D7647	>20	2	2	2
Particles >71µm	ASTM D7647	>4	0	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 23/19/13	▲ 23/19/13	▲ 25/22/15

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	3.07	3.25	2.95

OIL ANALYSIS REPORT

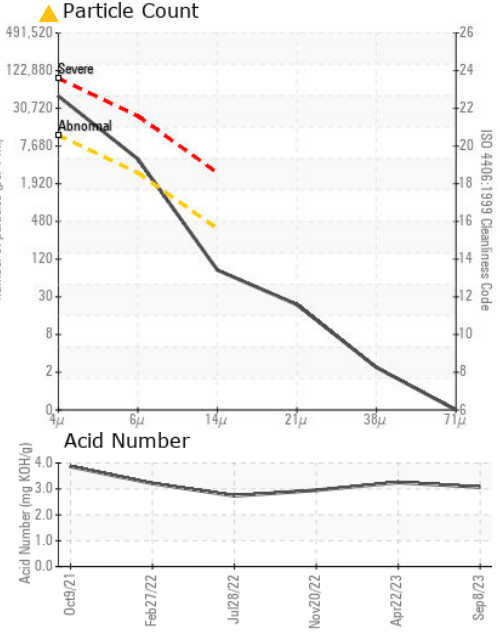
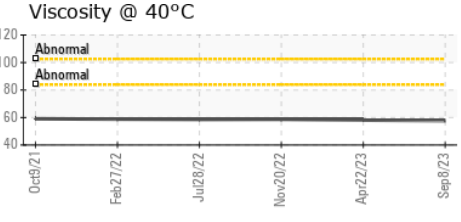
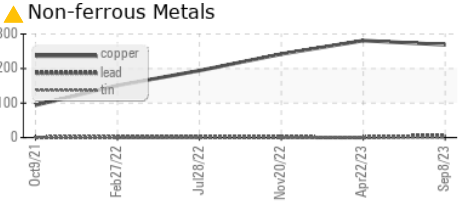
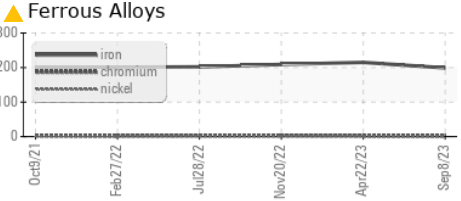


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	57.7	58.1	58.7
Visc @ 100°C	cSt	ASTM D445	10.0	9.9	10.1
Viscosity Index (VI)	Scale	ASTM D2270	161	157	160

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0853954 **Received** : 01 Nov 2023
Lab Number : 05996279 **Diagnosed** : 06 Nov 2023
Unique Number : 10724639 **Diagnostician** : Don Baldrige
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)