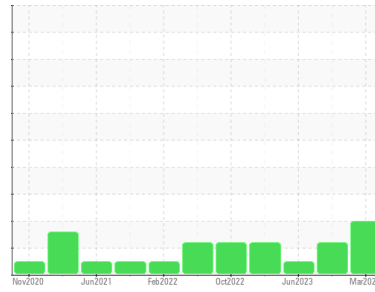




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

DICK LAVY

Machine Id

DICK LAVY 4824

Component

Transmission (Manual)

Fluid

Transmission (Manual) Oil (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. 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		WC0900783	WC0876002	WC0828778
Sample Date	Client Info		05 Mar 2024	23 Oct 2023	12 Jun 2023
Machine Age	mls	Client Info	499509	448291	390395
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	48	44	34
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	4	4
Lead	ppm	ASTM D5185m	>45	<1	0	0
Copper	ppm	ASTM D5185m	>225	40	30	20
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		17	11	10
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		8	6	6
Magnesium	ppm	ASTM D5185m		2	2	4
Calcium	ppm	ASTM D5185m		475	496	487
Phosphorus	ppm	ASTM D5185m		524	534	493
Zinc	ppm	ASTM D5185m		98	84	84
Sulfur	ppm	ASTM D5185m		3245	3089	3105

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>125	33	36	34
Sodium	ppm	ASTM D5185m		15	0	2
Potassium	ppm	ASTM D5185m	>20	2	2	1
Water	%	ASTM D6304	>0.1	0.049	0.022	0.021
ppm Water	ppm	ASTM D6304	>1000	493	227	214.7

FLUID CLEANLINESS

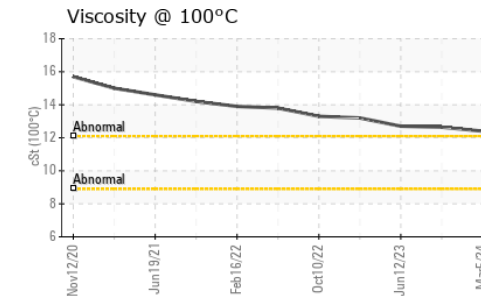
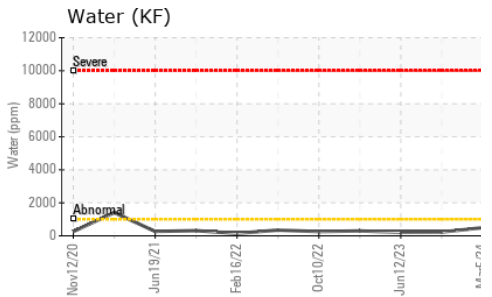
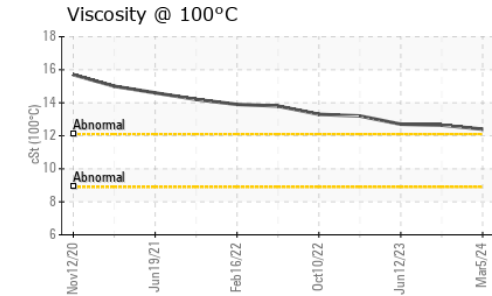
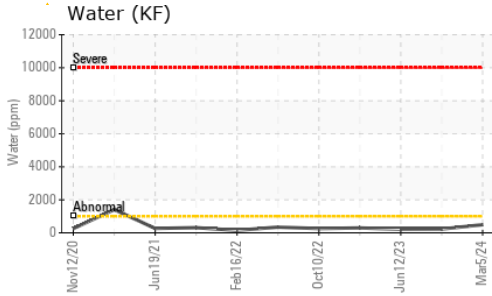
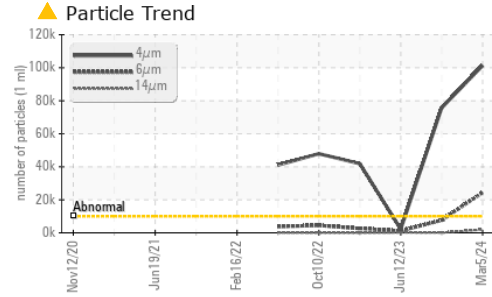
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 101305	▲ 75730	2210
Particles >6µm	ASTM D7647	>2500	▲ 24406	▲ 7664	1204
Particles >14µm	ASTM D7647	>320	▲ 1975	90	205
Particles >21µm	ASTM D7647	>80	▲ 410	17	69
Particles >38µm	ASTM D7647	>20	14	0	11
Particles >71µm	ASTM D7647	>4	1	0	1
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 24/22/18	▲ 23/20/14	18/17/15

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		1.05	0.88	0.88



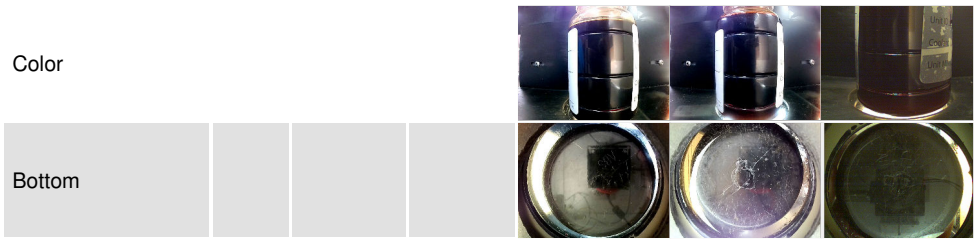
OIL ANALYSIS REPORT



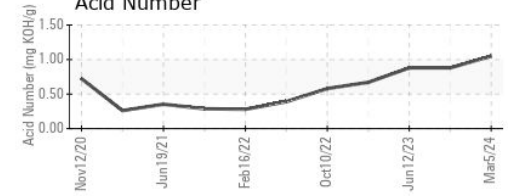
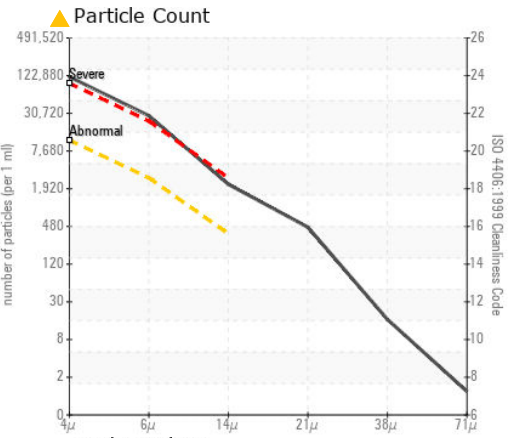
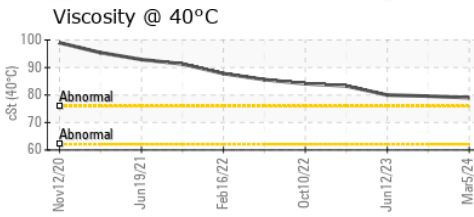
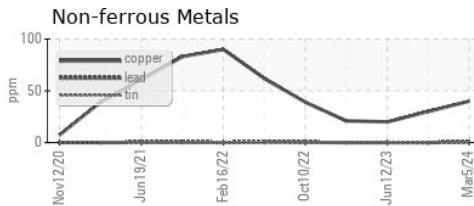
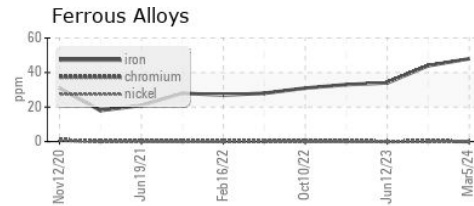
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	79.0	79.6	80.0
Visc @ 100°C	cSt	ASTM D445	12.4	12.64	12.7
Viscosity Index (VI)	Scale	ASTM D2270	154	157	158

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900783
Lab Number : 06153100
Unique Number : 10983178
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)
Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 22 Apr 2024 - Angela Borella

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)