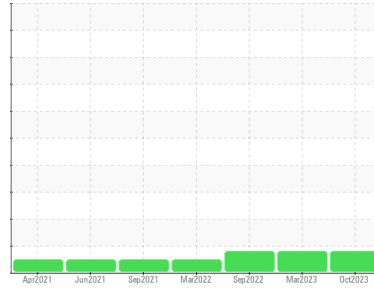




OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
DICK LAVY
 Machine Id
DICK LAVY 4829
 Component
Rear Differential
 Fluid
Differential Oil (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory elemental data updates.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0853967	WC0797141	WC0751667
Sample Date	Client Info		25 Oct 2023	14 Mar 2023	10 Sep 2022
Machine Age	mls	Client Info	315233	249800	203267
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 >500	119	115	111
Chromium	ppm	ASTM D5185m >10	<1	1	1
Nickel	ppm	ASTM D5185m >10	0	0	<1
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	<1	2	1
Lead	ppm	ASTM D5185m >25	0	0	0
Copper	ppm	ASTM D5185m >100	1	1	1
Tin	ppm	ASTM D5185m >10	<1	0	<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	90	100	98
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1
Manganese	ppm	ASTM D5185m	5	5	5
Magnesium	ppm	ASTM D5185m	122	154	150
Calcium	ppm	ASTM D5185m	0	6	3
Phosphorus	ppm	ASTM D5185m	1476	1636	1549
Zinc	ppm	ASTM D5185m	0	4	0
Sulfur	ppm	ASTM D5185m	21178	28617	25056

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	19	18	18
Sodium	ppm	ASTM D5185m	4	2	3
Potassium	ppm	ASTM D5185m >20	<1	2	1
Water	%	ASTM D6304 >.2	0.032	0.019	0.038
ppm Water	ppm	ASTM D6304 >2000	328	191.8	386.1

FLUID CLEANLINESS

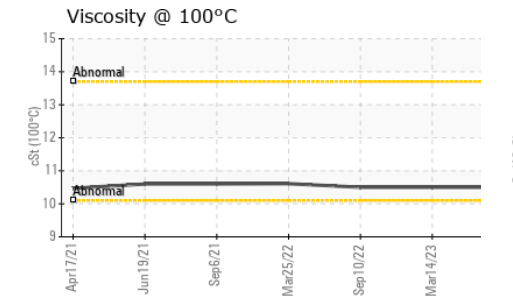
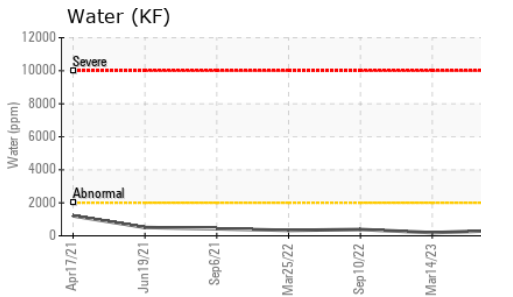
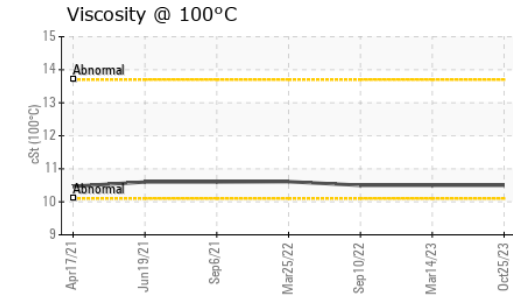
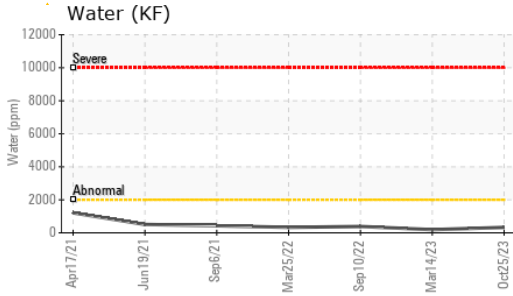
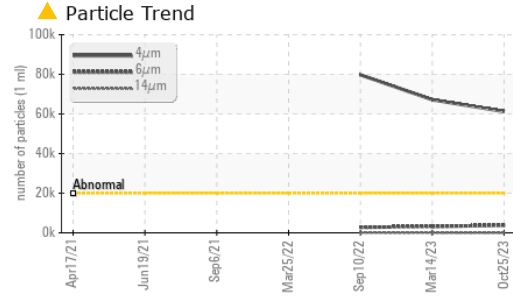
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 61197	▲ 67206	▲ 79740
Particles >6µm	ASTM D7647	>5000	3798	3214	2729
Particles >14µm	ASTM D7647	>640	16	26	25
Particles >21µm	ASTM D7647	>160	4	4	10
Particles >38µm	ASTM D7647	>40	0	0	1
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 23/19/11	▲ 23/19/12	▲ 23/19/12

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.72	0.75	1.00



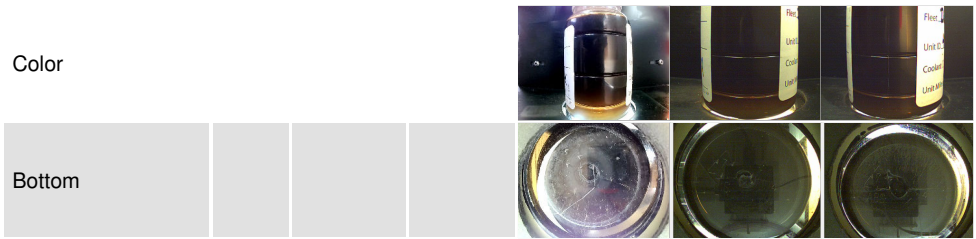
OIL ANALYSIS REPORT



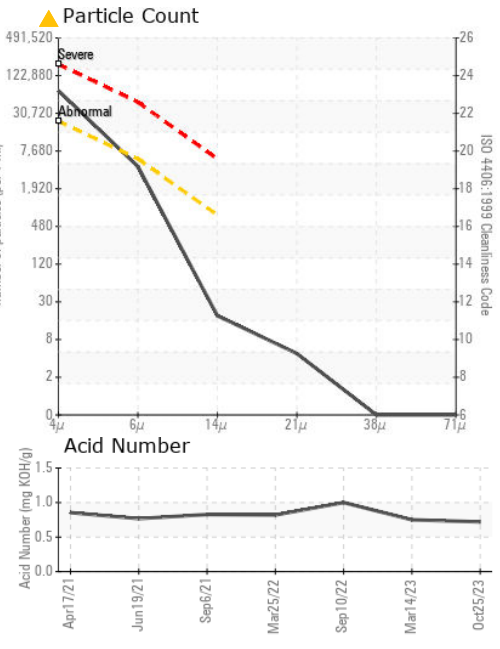
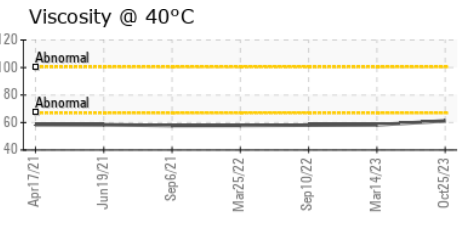
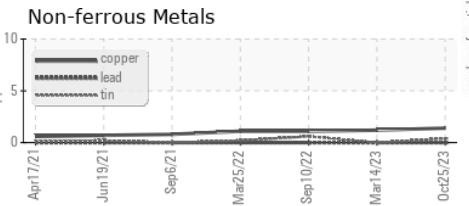
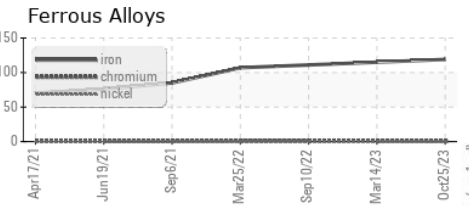
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	61.2	58.3	58.1
Visc @ 100°C	cSt	ASTM D445	10.5	10.5	10.5
Viscosity Index (VI)	Scale	ASTM D2270	161	171	172

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0853967 **Received** : 21 Nov 2023
Lab Number : 06014530 **Diagnosed** : 30 Nov 2023
Unique Number : 10753674 **Diagnostician** : Doug Bogart
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)