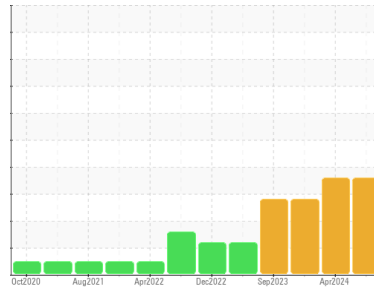




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area
DICK LAVY
 Machine Id
DICK LAVY 4819
 Component
Front Differential
 Fluid
GEAR OIL SAE 75W90 (--- 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 oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0934561	WC0900749	WC0900896
Sample Date	Client Info		07 May 2024	11 Apr 2024	04 Jan 2024
Machine Age	mls	Client Info	493921	493798	457388
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	259	255	266
Chromium	ppm	ASTM D5185m >10	<1	<1	<1
Nickel	ppm	ASTM D5185m >10	0	<1	<1
Titanium	ppm	ASTM D5185m	<1	<1	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	2	2	1
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 400	248	253	216
Barium	ppm	ASTM D5185m 200	<1	1	<1
Molybdenum	ppm	ASTM D5185m 12	0	0	0
Manganese	ppm	ASTM D5185m	12	12	12
Magnesium	ppm	ASTM D5185m 12	<1	4	2
Calcium	ppm	ASTM D5185m 150	8	17	8
Phosphorus	ppm	ASTM D5185m 1650	1304	1351	1273
Zinc	ppm	ASTM D5185m 125	17	12	3
Sulfur	ppm	ASTM D5185m 22500	24326	25311	20003

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ 109	▲ 107	▲ 120
Sodium	ppm	ASTM D5185m	4	4	3
Potassium	ppm	ASTM D5185m >20	<1	3	0
Water	%	ASTM D6304 >.2	0.050	0.036	0.022
ppm Water	ppm	ASTM D6304 >2000	502	362	229

FLUID CLEANLINESS

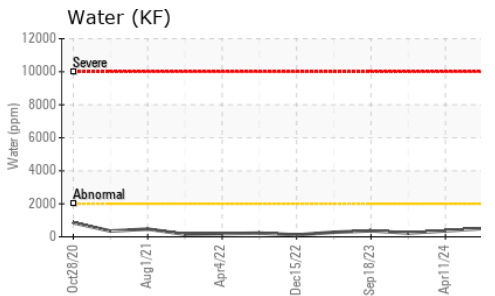
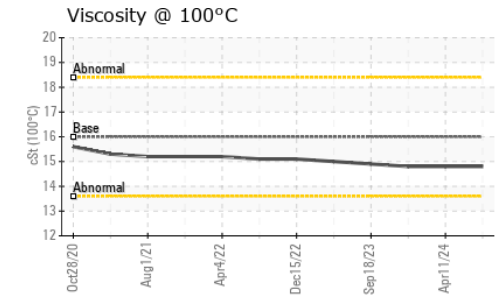
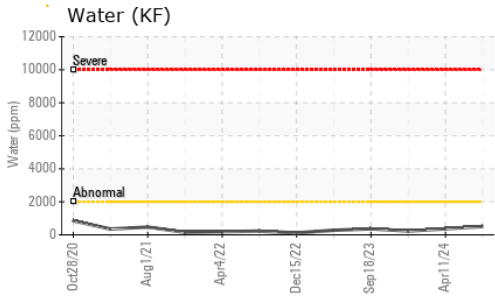
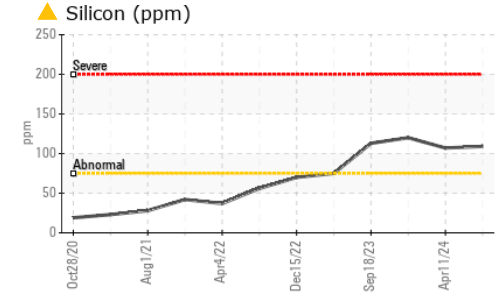
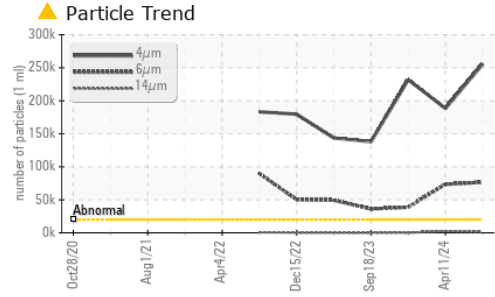
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 255262	▲ 188424	▲ 231639
Particles >6µm	ASTM D7647	>5000	▲ 76628	▲ 73524	▲ 38663
Particles >14µm	ASTM D7647	>640	▲ 1415	▲ 2467	134
Particles >21µm	ASTM D7647	>160	▲ 274	▲ 455	13
Particles >38µm	ASTM D7647	>40	10	14	0
Particles >71µm	ASTM D7647	>10	0	1	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 25/23/18	▲ 25/23/18	▲ 25/22/14

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 2.00	2.22	2.22	2.37



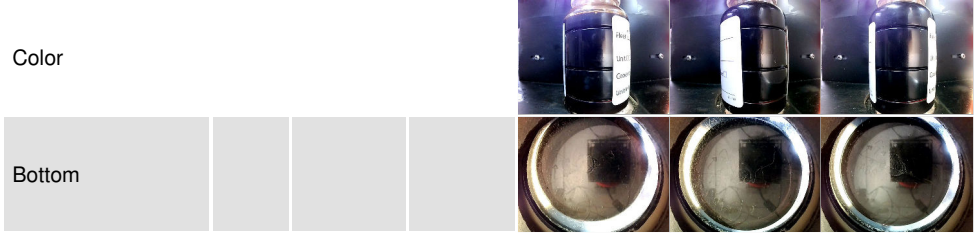
OIL ANALYSIS REPORT



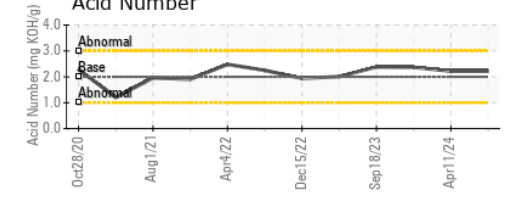
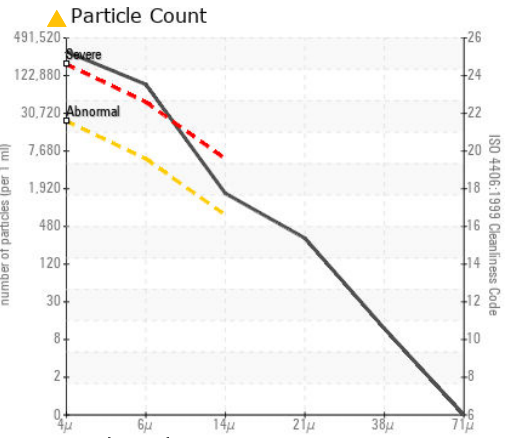
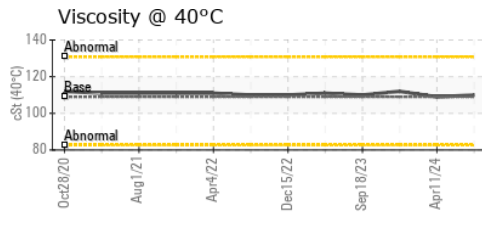
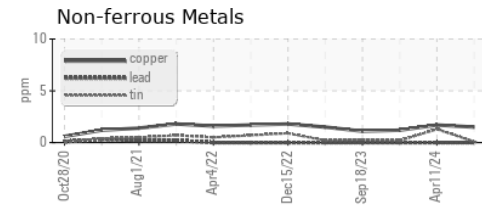
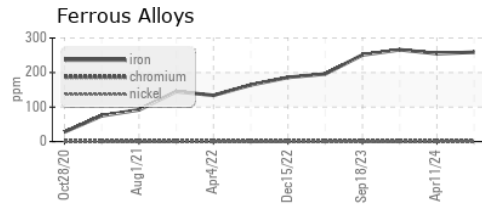
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	109	109	112
Visc @ 100°C	cSt	ASTM D445	16.0	14.8	14.8
Viscosity Index (VI)	Scale	ASTM D2270	157	140	136

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0934561 **Received** : 30 May 2024
Lab Number : 06195904 **Tested** : 02 Jun 2024
Unique Number : 11058027 **Diagnosed** : 02 Jun 2024 - Doug Bogart
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

BASF - GIANNA CREDAROLI
 500 WHITE PLAINS RD
 TARRYTOWN, NY
 US 10591
 Contact: MIKE BARRY
 mike.barry@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)