



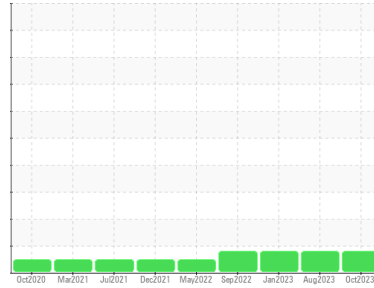
OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
DICK LAVY
 Machine Id
DICK LAVY 4818
 Component
Rear Differential
 Fluid
GEAR OIL SAE 75W90 (--- GAL)



DIAGNOSIS

Recommendation
 No corrective action is recommended at this time. Resample at the next service interval to monitor.

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 suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0853909	WC0853891	WC0771166
Sample Date	Client Info		02 Oct 2023	15 Aug 2023	25 Jan 2023
Machine Age	mls	Client Info	363954	345743	286910
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	126	115
Chromium	ppm	ASTM D5185m >10	<1	<1	<1
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	1	1	2
Lead	ppm	ASTM D5185m >25	0	0	0
Copper	ppm	ASTM D5185m >100	2	2	2
Tin	ppm	ASTM D5185m >10	<1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	272	267	289
Barium	ppm	ASTM D5185m 200	0	0	1
Molybdenum	ppm	ASTM D5185m 12	0	0	<1
Manganese	ppm	ASTM D5185m	11	12	11
Magnesium	ppm	ASTM D5185m 12	2	2	2
Calcium	ppm	ASTM D5185m 150	9	7	7
Phosphorus	ppm	ASTM D5185m 1650	1333	1463	1259
Zinc	ppm	ASTM D5185m 125	2	2	13
Sulfur	ppm	ASTM D5185m 22500	20879	22936	24562

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	57	58	48
Sodium	ppm	ASTM D5185m	4	5	5
Potassium	ppm	ASTM D5185m >20	4	<1	2
Water	%	ASTM D6304 >.2	0.107	0.042	0.020
ppm Water	ppm	ASTM D6304 >2000	1070	427.4	204.7

FLUID CLEANLINESS

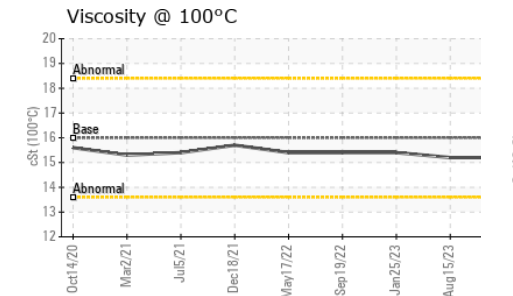
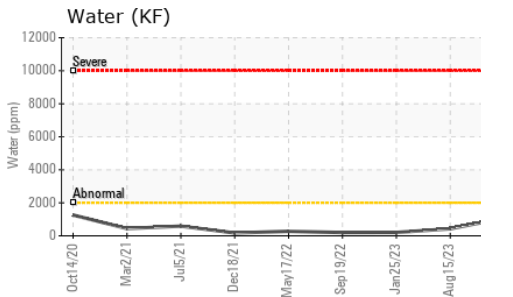
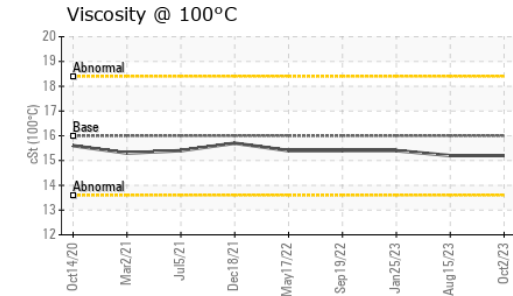
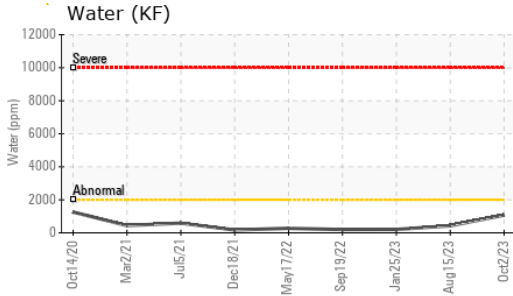
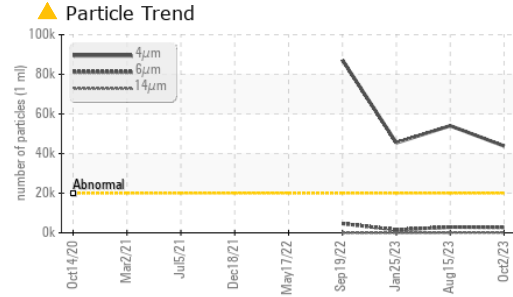
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 43810	▲ 54037	▲ 45446
Particles >6µm	ASTM D7647	>5000	2722	2911	1499
Particles >14µm	ASTM D7647	>640	51	62	11
Particles >21µm	ASTM D7647	>160	14	13	3
Particles >38µm	ASTM D7647	>40	1	1	1
Particles >71µm	ASTM D7647	>10	0	0	1
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 23/19/13	▲ 23/19/13	▲ 23/18/11

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 2.00	2.23	2.42	1.95



OIL ANALYSIS REPORT

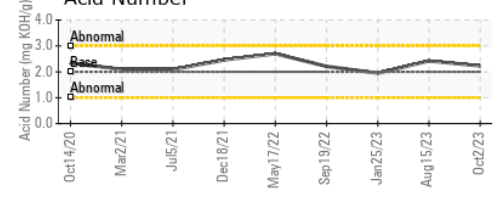
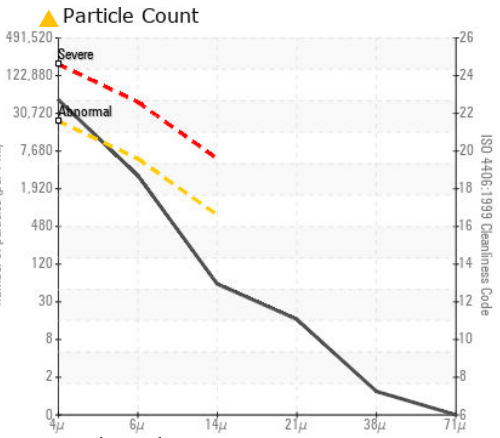
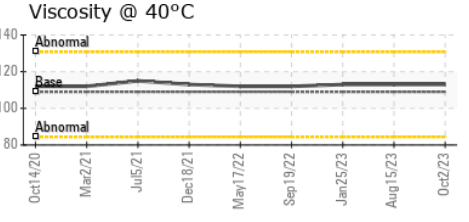
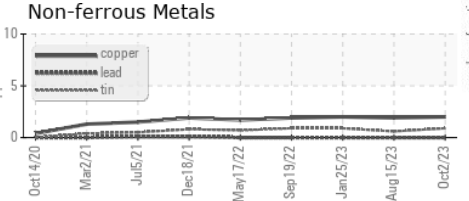
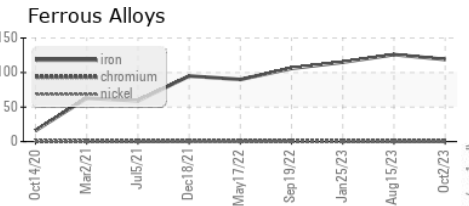


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	109	113	113
Visc @ 100°C	cSt	ASTM D445	16.0	15.2	15.4
Viscosity Index (VI)	Scale	ASTM D2270	157	140	143

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0853909 **Received** : 13 Oct 2023
Lab Number : 05978917 **Diagnosed** : 17 Oct 2023
Unique Number : 10696212 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

BASF - GIANNA CREDAROLI
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 US 10591
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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)