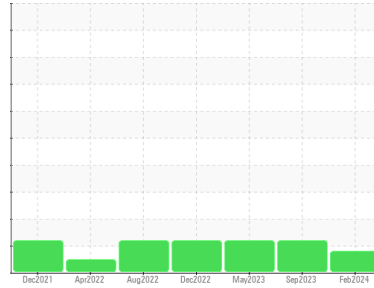




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

DICK LAVY

Machine Id

DICK LAVY 4855

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 < 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		WC0900817	WC0853915	WC0828539
Sample Date	Client Info		22 Feb 2024	22 Sep 2023	11 May 2023
Machine Age	mls	Client Info	326094	261888	208344
Oil Age	mls	Client Info	0	0	208344
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	213	194	172
Chromium	ppm	ASTM D5185m >10	2	2	2
Nickel	ppm	ASTM D5185m >10	0	0	<1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	4	4	3
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	146	147	138
Barium	ppm	ASTM D5185m 200	0	<1	<1
Molybdenum	ppm	ASTM D5185m 12	<1	0	<1
Manganese	ppm	ASTM D5185m	15	15	14
Magnesium	ppm	ASTM D5185m 12	8	8	8
Calcium	ppm	ASTM D5185m 150	26	23	22
Phosphorus	ppm	ASTM D5185m 1650	1051	1048	1076
Zinc	ppm	ASTM D5185m 125	19	11	17
Sulfur	ppm	ASTM D5185m 22500	25833	22167	29380

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	35	37	24
Sodium	ppm	ASTM D5185m	4	4	3
Potassium	ppm	ASTM D5185m >20	5	2	3
Water	%	ASTM D6304 >.2	0.036	0.031	0.025
ppm Water	ppm	ASTM D6304 >2000	370	310.4	251.1

FLUID CLEANLINESS

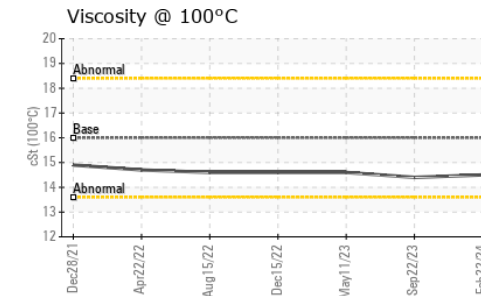
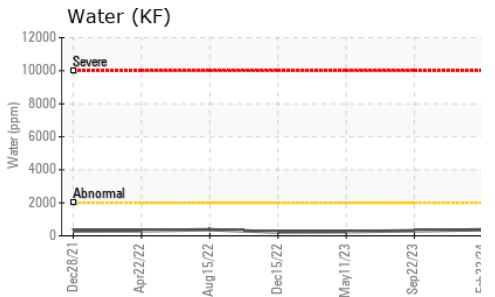
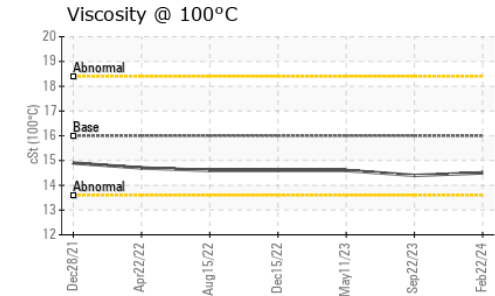
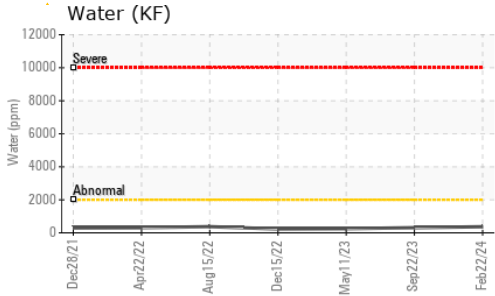
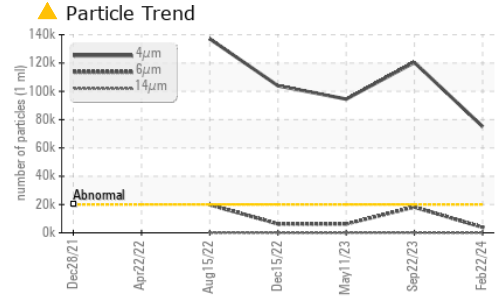
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 75085	▲ 120397	▲ 94485
Particles >6µm	ASTM D7647	>5000	3884	▲ 18192	● 6209
Particles >14µm	ASTM D7647	>640	22	25	16
Particles >21µm	ASTM D7647	>160	5	8	4
Particles >38µm	ASTM D7647	>40	0	1	1
Particles >71µm	ASTM D7647	>10	0	1	1
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 23/19/12	▲ 24/21/12	▲ 24/20/11

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 2.00	2.94	2.79	2.63



OIL ANALYSIS REPORT

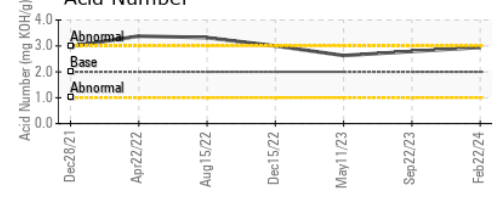
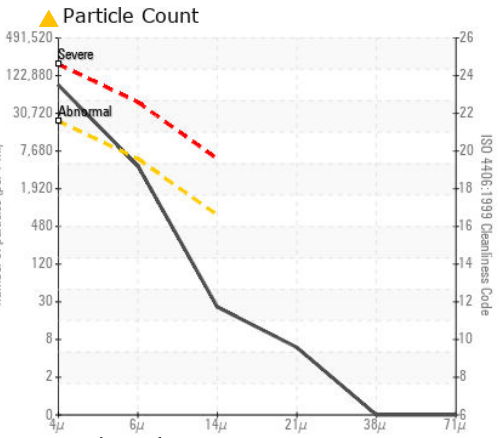
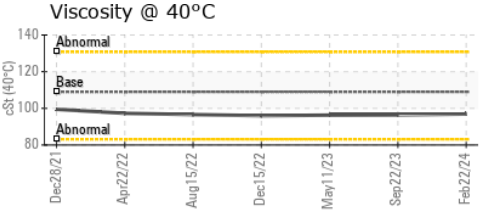
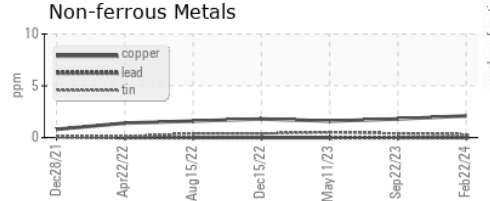
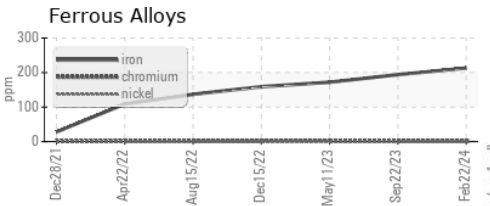


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	109	96.4	96.3
Visc @ 100°C	cSt	ASTM D445	16.0	14.4	14.6
Viscosity Index (VI)	Scale	ASTM D2270	157	154	157

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900817 **Received** : 02 Apr 2024
Lab Number : 06136370 **Tested** : 03 Apr 2024
Unique Number : 10955835 **Diagnosed** : 04 Apr 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)
 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)

BASF - GIANNA CREDAROLI
 500 WHITE PLAINS RD
 TARRYTOWN, NY
 US 10591
 Contact: GIANNA CREDAROLI
 gianna.credaroli@basf.com
 T:
 F: