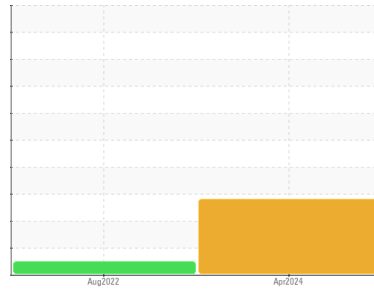




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
HOWARD SHEPPARD
 Machine Id
2610 HOWARD SHEPPARD
 Component
Front Differential
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.

▲ Wear

Gear wear is indicated.

▲ Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0934576	WC0771216	---
Sample Date	Client Info			12 Apr 2024	12 Aug 2022	---
Machine Age	mls	Client Info		173135	350	---
Oil Age	mls	Client Info		0	0	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				ABNORMAL	NORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	▲ 463	1	---
Chromium	ppm	ASTM D5185m	>10	2	0	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	9	<1	---
Lead	ppm	ASTM D5185m	>25	<1	<1	---
Copper	ppm	ASTM D5185m	>100	3	0	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		<1	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		269	286	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		13	<1	---
Magnesium	ppm	ASTM D5185m		1	2	---
Calcium	ppm	ASTM D5185m		0	<1	---
Phosphorus	ppm	ASTM D5185m		1410	1472	---
Zinc	ppm	ASTM D5185m		9	3	---
Sulfur	ppm	ASTM D5185m		24631	27122	---

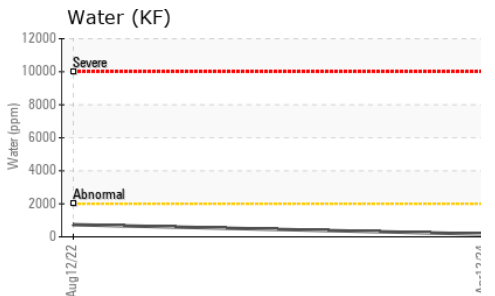
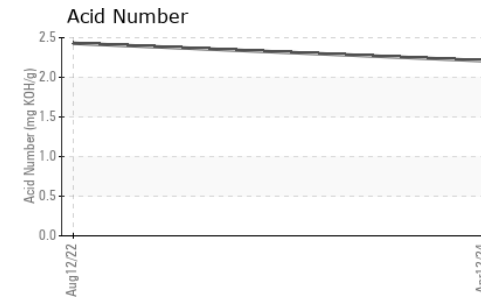
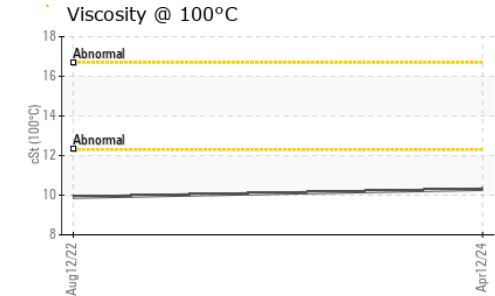
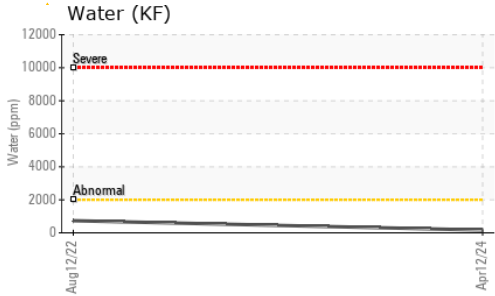
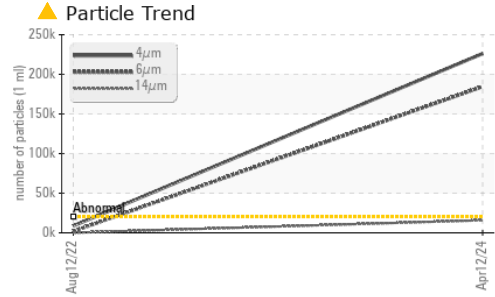
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	60	1	---
Sodium	ppm	ASTM D5185m		2	<1	---
Potassium	ppm	ASTM D5185m	>20	2	<1	---
Water	%	ASTM D6304	>.2	0.016	0.073	---
ppm Water	ppm	ASTM D6304	>2000	166	735.6	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ 226199	8758	---
Particles >6µm		ASTM D7647	>5000	▲ 184627	1887	---
Particles >14µm		ASTM D7647	>640	▲ 15838	91	---
Particles >21µm		ASTM D7647	>160	▲ 317	21	---
Particles >38µm		ASTM D7647	>40	3	1	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 25/25/21	20/18/14	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.21	2.43	---



OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	56.8	53.9	---
Visc @ 100°C	cSt	ASTM D445	10.3	9.9	---
Viscosity Index (VI)	Scale	ASTM D2270	172	172	---

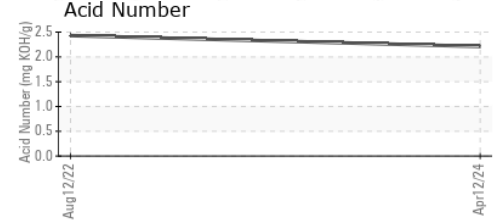
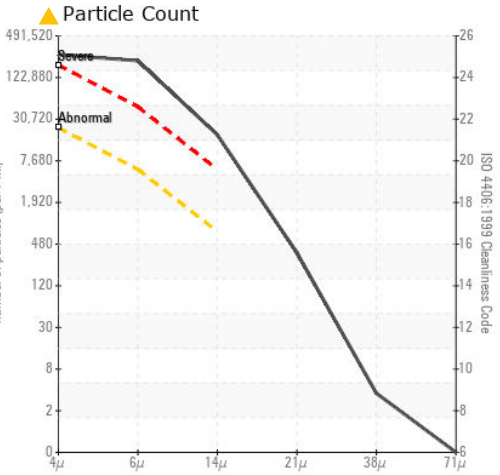
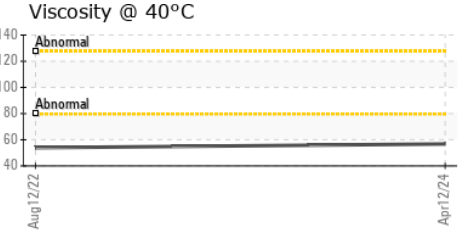
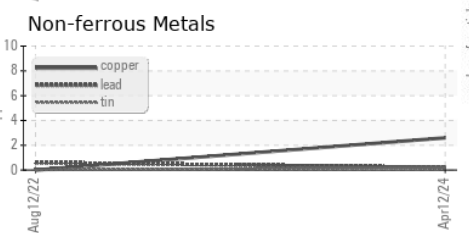
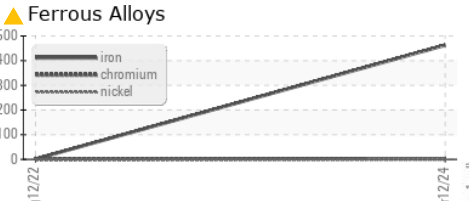
SAMPLE IMAGES

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

no image

no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0934576 **Received** : 06 Jun 2024
Lab Number : 06201505 **Tested** : 07 Jun 2024
Unique Number : 11063628 **Diagnosed** : 11 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)