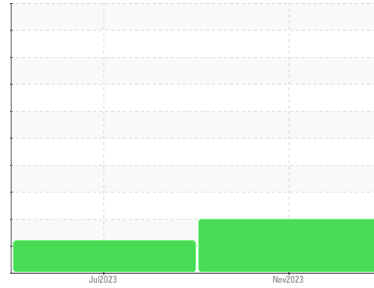




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
WALPOLE
 Machine Id
941 - WALPOLE
 Component
Front Differential
 Fluid
NOT GIVEN (--- 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.

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		WC0876012	WC0828730	---
Sample Date	Client Info		14 Nov 2023	11 Jul 2023	---
Machine Age	mls	Client Info	162386	118161	---
Oil Age	mls	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	238	238	---
Chromium	ppm	ASTM D5185m >10	3	3	---
Nickel	ppm	ASTM D5185m >10	<1	<1	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	2	4	---
Lead	ppm	ASTM D5185m >25	3	3	---
Copper	ppm	ASTM D5185m >100	40	41	---
Tin	ppm	ASTM D5185m >10	4	4	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	44	57	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	0	<1	---
Manganese	ppm	ASTM D5185m	10	10	---
Magnesium	ppm	ASTM D5185m	184	171	---
Calcium	ppm	ASTM D5185m	9	7	---
Phosphorus	ppm	ASTM D5185m	1748	1657	---
Zinc	ppm	ASTM D5185m	0	10	---
Sulfur	ppm	ASTM D5185m	24645	24278	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	52	47	---
Sodium	ppm	ASTM D5185m	5	<1	---
Potassium	ppm	ASTM D5185m >20	0	1	---
Water	%	ASTM D6304 >.2	0.022	0.030	---
ppm Water	ppm	ASTM D6304 >2000	226	301.8	---

FLUID CLEANLINESS

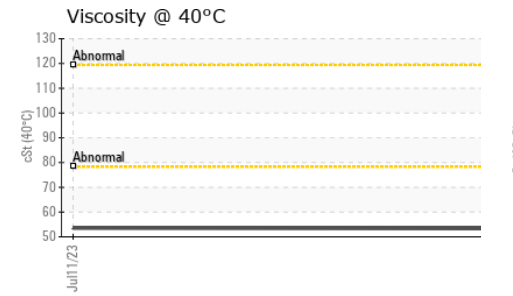
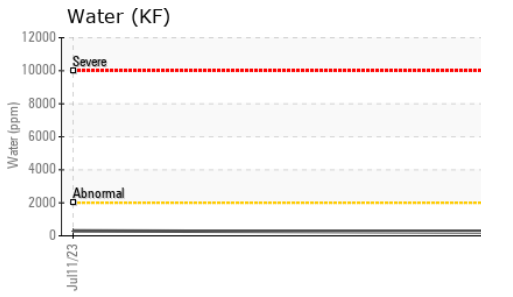
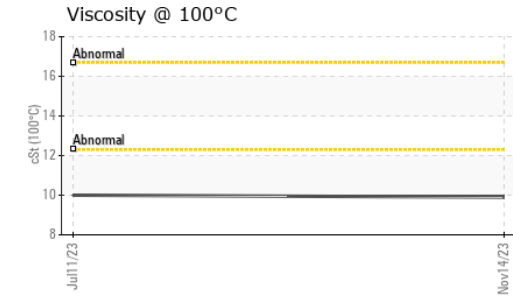
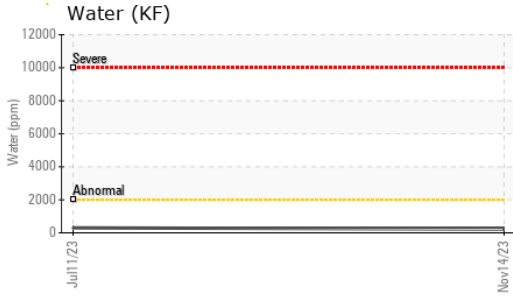
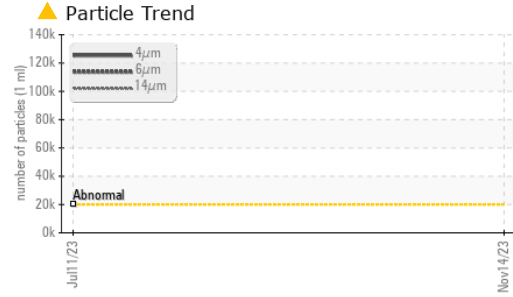
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 128528	---	---
Particles >6µm	ASTM D7647	>5000	▲ 25359	---	---
Particles >14µm	ASTM D7647	>640	▲ 751	---	---
Particles >21µm	ASTM D7647	>160	▲ 207	---	---
Particles >38µm	ASTM D7647	>40	17	---	---
Particles >71µm	ASTM D7647	>10	1	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 24/22/17	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.50	0.63	---



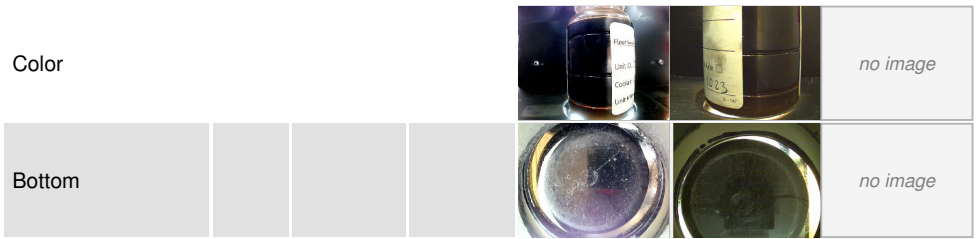
OIL ANALYSIS REPORT



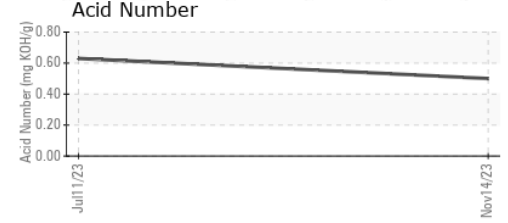
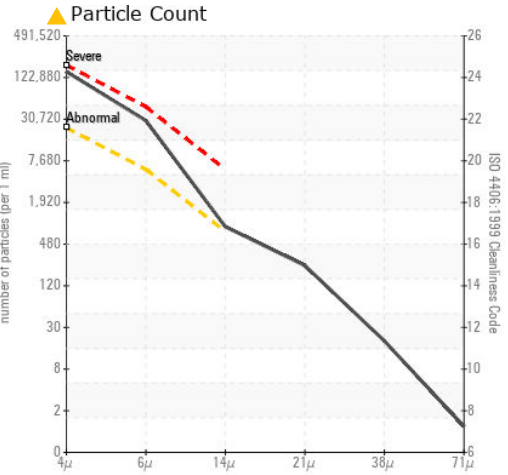
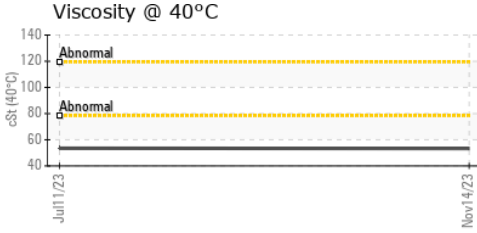
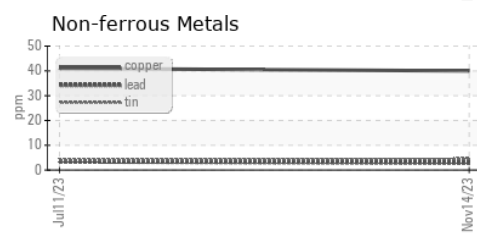
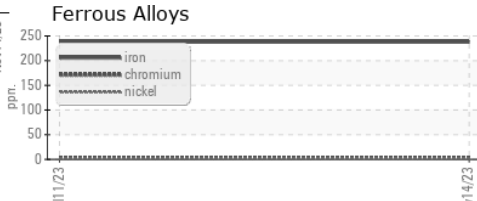
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	53.3	53.5	---
Visc @ 100°C	cSt	ASTM D445	9.9	10.0	---
Viscosity Index (VI)	Scale	ASTM D2270	174	176	---

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0876012 **Received** : 05 Dec 2023
Lab Number : **06025720** **Diagnosed** : 07 Dec 2023
Unique Number : 10770220 **Diagnostician** : Don Baldrige
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

BASF - GIANNA CREDAROLI
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 US 10591
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 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)