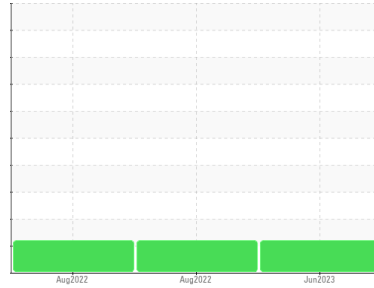




OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
VENEZIA
Machine Id
VENEZIA 2207
Component
Front Differential
Fluid
NOT GIVEN (--- QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates of elemental data.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 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			WC0843157	WC0712489	WC0712488
Sample Date	Client Info			12 Jun 2023	10 Aug 2022	09 Aug 2022
Machine Age	mls	Client Info		90000	26000	26000
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	142	27	174
Chromium	ppm	ASTM D5185m	>10	2	<1	2
Nickel	ppm	ASTM D5185m	>10	3	2	4
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	2	0	2
Lead	ppm	ASTM D5185m	>25	120	<1	4
Copper	ppm	ASTM D5185m	>100	10	3	22
Tin	ppm	ASTM D5185m	>10	1	<1	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		163	104	230
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	11
Manganese	ppm	ASTM D5185m		6	1	10
Magnesium	ppm	ASTM D5185m		152	167	0
Calcium	ppm	ASTM D5185m		0	<1	18
Phosphorus	ppm	ASTM D5185m		1706	1723	1466
Zinc	ppm	ASTM D5185m		0	0	8
Sulfur	ppm	ASTM D5185m		25056	28816	27416

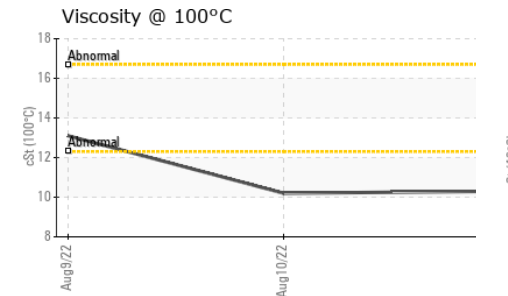
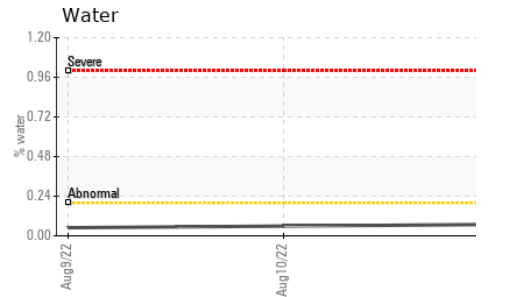
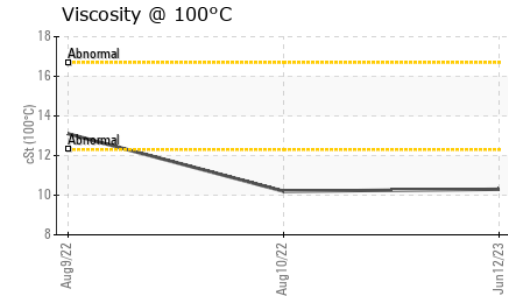
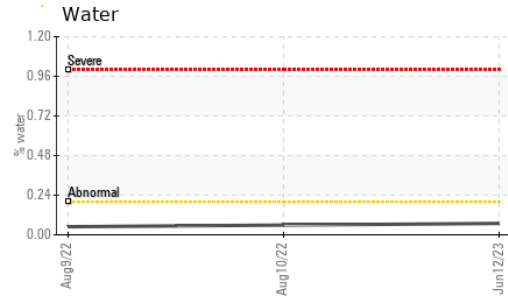
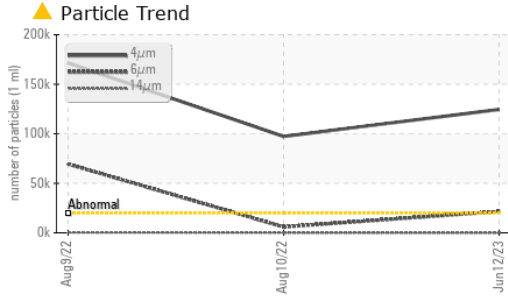
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	19	7	41
Sodium	ppm	ASTM D5185m		4	2	9
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
Water	%	ASTM D6304	>.2	0.069	0.059	0.049
ppm Water	ppm	ASTM D6304	>2000	690.1	598.0	497.3

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ 124535	▲ 97311	▲ 171506
Particles >6µm		ASTM D7647	>5000	▲ 21470	▲ 5891	▲ 69452
Particles >14µm		ASTM D7647	>640	73	146	354
Particles >21µm		ASTM D7647	>160	14	43	33
Particles >38µm		ASTM D7647	>40	1	4	2
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/22/13	▲ 24/20/14	▲ 25/23/16

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.96	0.75	2.10



OIL ANALYSIS REPORT



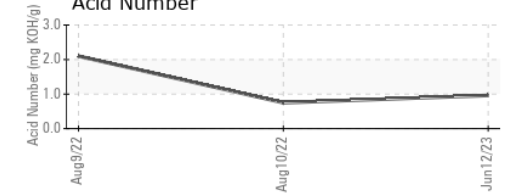
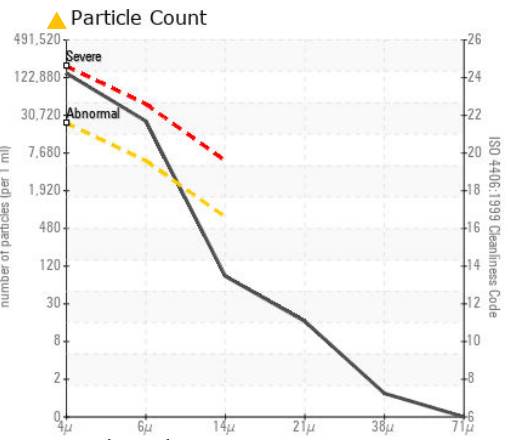
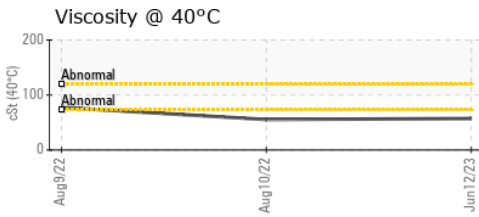
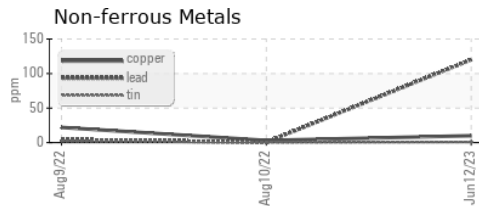
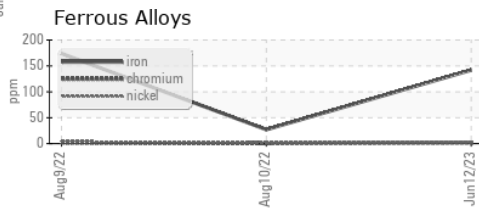
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	57.3	55.4	77.4
Visc @ 100°C	cSt	ASTM D445	10.3	10.2	13.1
Viscosity Index (VI)	Scale	ASTM D2270	170	174	171

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0843157 **Received** : 21 Aug 2023
Lab Number : 05930339 **Diagnosed** : 24 Aug 2023
Unique Number : 10615610 **Diagnostician** : Doug Bogart
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

BASF - GIANNA CREDAROLI
 500 WHITE PLAINS RD
 TARRYTOWN, NY
 US 10591
 Contact: GIANNA CREDAROLI
 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)