

OIL ANALYSIS REPORT

Sample Rating Trend



METRO 21032 Component **Front Differential**

NOT GIVEN (--- GAL)

DIAGNOSIS

Area METRO

A Recommendation

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

A Wear

Gear wear is indicated.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

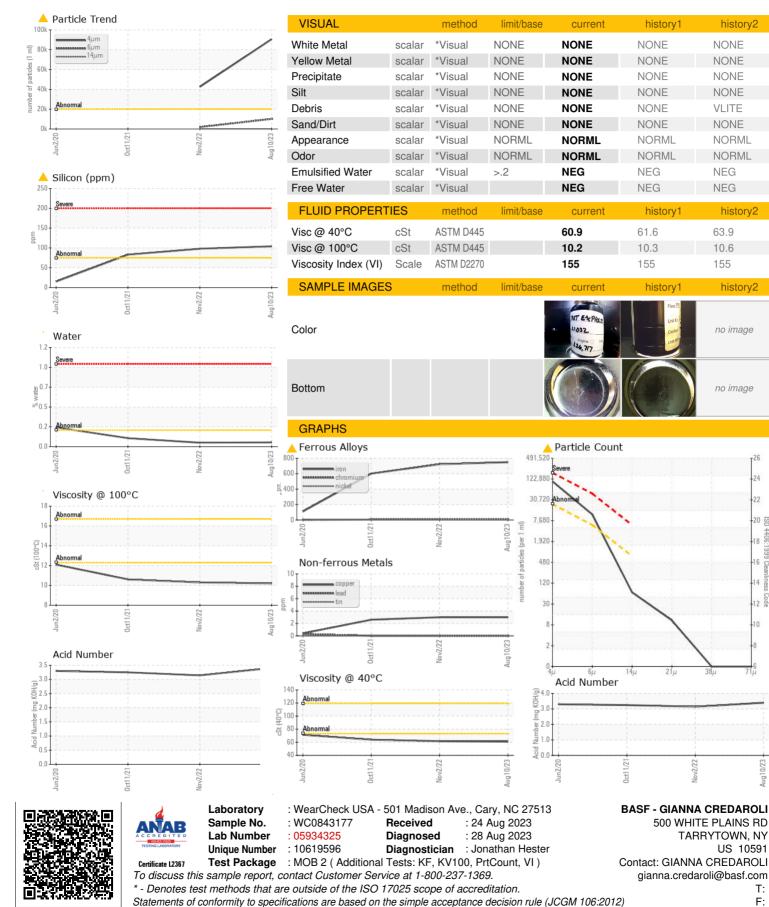
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843177	WC0765905	WC0631730
Sample Date		Client Info		10 Aug 2023	02 Nov 2022	11 Oct 2021
Machine Age	mls	Client Info		326717	271568	151794
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	7 49	▲ 722	601
Chromium	ppm	ASTM D5185m	>10	6	6	5
Nickel	ppm	ASTM D5185m	>10	5	3	4
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	5	5	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	3	3	3
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		229	219	268
Barium	ppm	ASTM D5185m		4	0	3
Molybdenum	ppm	ASTM D5185m		2	2	<1
Manganese	ppm	ASTM D5185m		30	28	25
Magnesium	ppm	ASTM D5185m		12	13	11
Calcium	ppm	ASTM D5185m		33	29	24
Phosphorus	ppm	ASTM D5185m		1832	1912	1882
Zinc	ppm	ASTM D5185m		23	21	20
Sulfur	ppm	ASTM D5185m		26558	26462	21544
CONTAMINANTS		method	limit/base			history2
				current	history1	
Silicon	ppm	ASTM D5185m	>/5	▲ 104	▲ 98	▲ 83
Sodium	ppm	ASTM D5185m	. 20	11 F	11	12
Potassium	ppm	ASTM D5185m ASTM D6304		5 0.051	6 0.048	4 0.102
Water ppm Water	% ppm	ASTM D6304 ASTM D6304		518.0	484.7	1025.9
	ppm					
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	A 90575	42508	
Particles >6µm		ASTM D7647	>5000	A 10102	1937	
Particles >14µm		ASTM D7647	>640	58	37	
Particles >21µm		ASTM D7647		9	10	
Particles >38µm		ASTM D7647	>40	0	1	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 24/21/13	▲ 23/18/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) 52:18) Rev: 1	mg KOH/g	ASTM D8045	Contact	3.40	3.14 INA CREDARO	3.247

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Contact/Location: GIANNA CREDAROLI - BASTARHD



OIL ANALYSIS REPORT



Contact/Location: GIANNA CREDAROLI - BASTARHD

US 10591

T: F:

history2

NONE

NONE

NONE

NONE

VLITE

NONE

NORML

NORML

history

history2

no image

no image

20 23

18

1406

1999 Cle

NEG

NEG

63.9

10.6

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