

OIL ANALYSIS REPORT

Sample Rating Trend

SAMPLE INFORMATION method limit/base current history1



history2

Component Transmission (Manual) Fluid GEAR OIL SAE 80 (--- GAL)

METRO 20017

DIAGNOSIS

Area METRO

A Recommendation

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

🔺 Wear

The aluminum level is abnormal. The tin level is abnormal.

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.

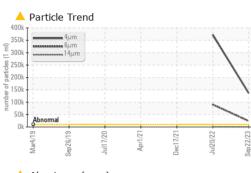
SAMPLE INFORM	ATION	method	limit/base	current	nistory i	nistory2	
Sample Number		Client Info		WC0853944	WC0728444	WC0661191	
Sample Date		Client Info		22 Sep 2023	20 Jul 2022	17 Dec 2021	
Machine Age	mls	Client Info		430654	323017	271616	
Oil Age	mls	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	biotomut	history2	
					history1		
Iron	ppm	ASTM D5185m	>200	98	96	102	
Chromium	ppm	ASTM D5185m	>5	0	0	<1	
Nickel	ppm	ASTM D5185m	>5	0	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>7	0	0	0	
Aluminum	ppm	ASTM D5185m	>25	🔺 54	<u> </u>	 74	
Lead	ppm	ASTM D5185m	>45	0	0	0	
Copper	ppm	ASTM D5185m	>225	7	4	7	
Tin	ppm	ASTM D5185m	>10	<u> </u>	1 2	1 3	
Antimony	ppm	ASTM D5185m				0	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	400	4	1	2	
Barium	ppm	ASTM D5185m	200	- <1	0	1	
Molybdenum		ASTM D5185m	12	<1	0	<1	
Manganese	ppm ppm	ASTM D5185m	12	18	15	15	
•		ASTM D5185m	12	4	0	6	
Magnesium	ppm		150	30	53	82	
Calcium	ppm	ASTM D5185m					
Phosphorus	ppm	ASTM D5185m	1650	771	879	846	
Zinc	ppm	ASTM D5185m	125	20	14	25	
Sulfur	ppm	ASTM D5185m		9546	12418	9814	
CONTAMINANTS	5	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>125	11	10	12	
Sodium	ppm	ASTM D5185m		1	<1	0	
Potassium	ppm	ASTM D5185m	>20	5	0	0	
Water	%	ASTM D6304		0.010	0.014	0.003	
ppm Water	ppm	ASTM D6304	>1000	103.3	149.7	39.9	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>10000	🔺 136793	▲ 372363		
Particles >6µm		ASTM D7647	>2500	<u> </u>	▲ 90554		
Particles >14µm		ASTM D7647	>320	90	160		
Particles >21µm		ASTM D7647	>80	10	12		
Particles >38µm		ASTM D7647	>20	0	1		
Particles >71µm		ASTM D7647	>4	0	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 24/22/14	▲ 26/24/14		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	1.10	1.18	1.14	
:26:21) Rev: 2	9 9			-			
:26:21) Rev: 2 Contact/Location: GIANNA CREDAROLI - BASTAF							

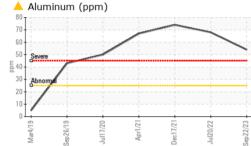
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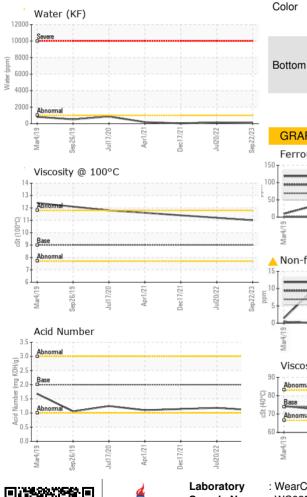
Contact/Location: GIANNA CREDAROLI - BASTARHD



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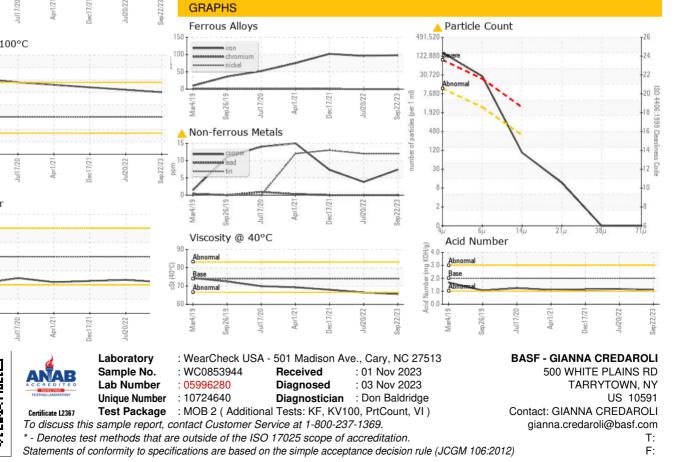






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	LIGHT	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		ing a flagg al	line it /le e e e		la la tamad	history 0
FLUID PROPERT	IE2	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	74	65.6	66.5	68.0
Visc @ 100°C	cSt	ASTM D445	9.0	11.0	11.2	11.4
Viscosity Index (VI)	Scale	ASTM D2270	94	160	161	162
SAMPLE IMAGES m		method	limit/base	current	history1	history2
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