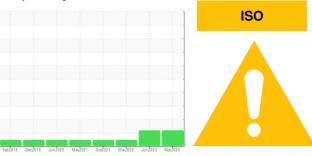


OIL ANALYSIS REPORT

Sample Rating Trend



Area METRO **METRO 20003**

Front Differential Fluid {not provided} (--- GAL)

DIAGNOSIS

A Recommendation

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

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.

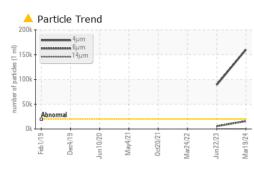
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934471	WC0828742	WC0682392
Sample Date		Client Info		19 Mar 2024	22 Jun 2023	24 Mar 2022
Machine Age	mls	Client Info		499176	432638	333028
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	430	398	384
Chromium	ppm	ASTM D5185m		2	3	3
Nickel	ppm	ASTM D5185m	>10	3	3	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	4	9	3
Lead	ppm	ASTM D5185m	>25	0	<1	<1
Copper	ppm	ASTM D5185m		2	2	2
Tin	ppm	ASTM D5185m	>10	- <1	_ <1	0
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron		ASTM D5185m		82	59	52
Barium	ppm ppm	ASTM D5185m		2	2	0
Molybdenum		ASTM D5185m		2 <1	2	1
Manganese	ppm ppm	ASTM D5185m		8	7	7
Magnesium	ppm	ASTM D5185m		139	146	168
Calcium	ppm	ASTM D5185m		7	5	4
Phosphorus	ppm	ASTM D5185m		1674	1620	1796
Zinc	ppm	ASTM D5185m		9	11	7
Sulfur	ppm	ASTM D5185m		28102	23713	, 19618
		method	limit/base	current		
					history1	history2
Silicon	ppm	ASTM D5185m	>/5	55	57	53
Sodium	ppm	ASTM D5185m	00	13	5	7
Potassium	ppm	ASTM D5185m		6	7	6
Water water	%	ASTM D6304		0.038	0.032	0.034
ppm Water	ppm	ASTM D6304		389	329.3	343.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	A 160029	▲ 88932	
Particles >6µm		ASTM D7647		A 15862	5756	
Particles >14µm		ASTM D7647	>640	109	150	
Particles >21µm		ASTM D7647		24	40	
Particles >38µm		ASTM D7647	>40	1	2	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 25/21/14	4/20/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) 33:12) Rev: 1	mg KOH/g	ASTM D8045	Contact	1.17 /Location: GIAN	1.10 NNA CREDARO	0.83 LI - BASTARHI

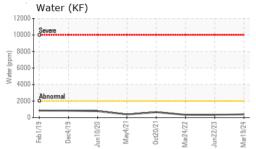
Report Id: bastarhd [WUSCAR] 06179373 (Generated: 05/20/2024 15:33:12) Rev: 1

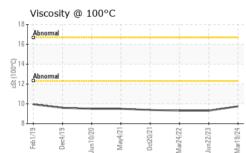
Contact/Location: GIANNA CREDAROLI - BASTARHD

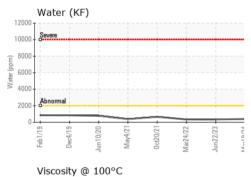


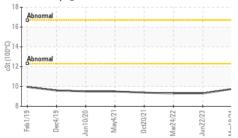
OIL ANALYSIS REPORT



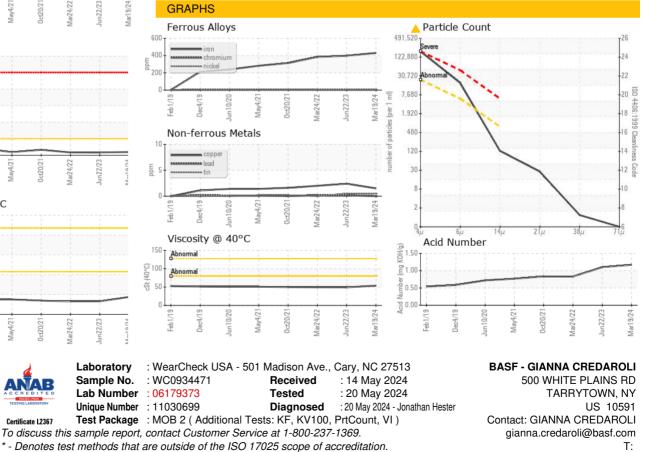








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		53.7	49.3	49.6
Visc @ 100°C	cSt	ASTM D445		9.75	9.3	9.3
Viscosity Index (VI)	Scale	ASTM D2270		169	174	173
SAMPLE IMAGES		method	limit/base	current	history1	history2
					Fleet_1"	Fleet



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Color

Bottom

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Certificate 12367

Contact/Location: GIANNA CREDAROLI - BASTARHD

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