

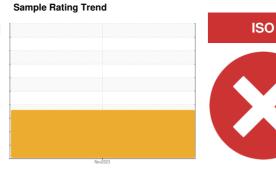
OIL ANALYSIS REPORT

METRO
Machine Id
METRO 25003

Front Differential

Fluid

{not provided} (--- GAL)



DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 75W90 Gear Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. Please specify the component make and model with your next sample.

Waar

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

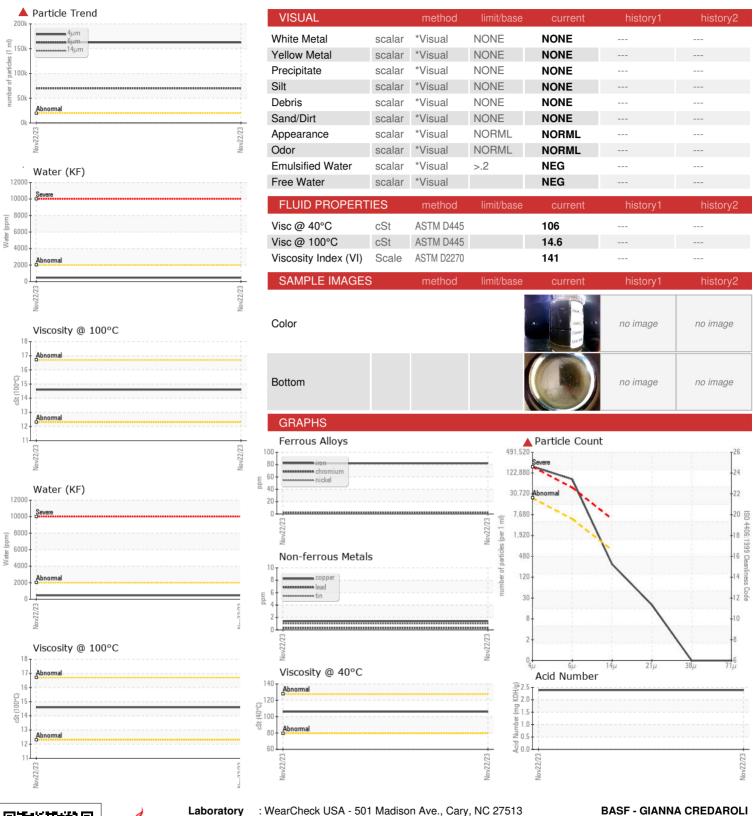
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

				Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934525		
Sample Date		Client Info		22 Nov 2023		
Machine Age	mls	Client Info		2241		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	82		
Chromium	ppm	ASTM D5185m	>10	2		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>25	<1		
Copper	ppm	ASTM D5185m	>100	1		
Tin	ppm	ASTM D5185m	>10	1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		359		
Barium	ppm	ASTM D5185m		6		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		10		
Magnesium	ppm	ASTM D5185m		2		
Calcium	ppm	ASTM D5185m		17		
Phosphorus	ppm	ASTM D5185m		1483		
Zinc	ppm	ASTM D5185m		8		
Sulfur	ppm	ASTM D5185m		26994		
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	7		
Sodium	ppm	ASTM D5185m		9		
Potassium	ppm	ASTM D5185m	>20	5		
Water	%	ASTM D6304	>.2	0.046		
ppm Water	ppm	ASTM D6304	>2000	462		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	162451		
Particles >6µm		ASTM D7647	>5000	69983		
Particles >14µm		ASTM D7647	>640	251		
Particles >21µm		ASTM D7647	>160	17		
Particles >38μm		ASTM D7647	>40	0		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	25/23/15		
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.39		



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number Unique Number : 11031951

: WC0934525 : 06180625

Received : 15 May 2024 **Tested** Diagnosed

: 17 May 2024 : 17 May 2024 - Wes Davis

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

Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369.

500 WHITE PLAINS RD

TARRYTOWN, NY US 10591

Contact: GIANNA CREDAROLI gianna.credaroli@basf.com T:

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

Report Id: bastarhd [WUSCAR] 06180625 (Generated: 05/17/2024 07:10:01) Rev: 1

Contact/Location: GIANNA CREDAROLI - BASTARHD

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