

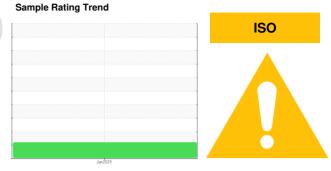
OIL ANALYSIS REPORT

METRO
Machine Id
METRO 25002

Front Differential

Fluid

{not provided} (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. 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.

Wear

All component wear rates are normal.

Contamination

There is a moderate 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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934523		
Sample Date		Client Info		19 Jan 2024		
Machine Age	mls	Client Info		3		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	52		
Chromium	ppm	ASTM D5185m	>10	<1		
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		>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		384		
Barium	ppm	ASTM D5185m		5		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		2		
Calcium	ppm	ASTM D5185m		13		
Phosphorus	ppm	ASTM D5185m		1603		
Zinc	ppm	ASTM D5185m		2		
Sulfur	ppm	ASTM D5185m		29375		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	6		
Sodium	ppm	ASTM D5185m		7		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>.2	0.045		
ppm Water	ppm	ASTM D6304	>2000	452		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	123605		
Particles >6µm		ASTM D7647	>5000	^ 30336		
Particles >14µm		ASTM D7647	>640	264		
Particles >21µm		ASTM D7647	>160	37		
Particles >38µm		ASTM D7647	>40	2		
Particles >71µm		ASTM D7647	>10	1		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/22/15		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Asid Number (AN)	ma 1/011/a	ACTM DODAE		2.50		

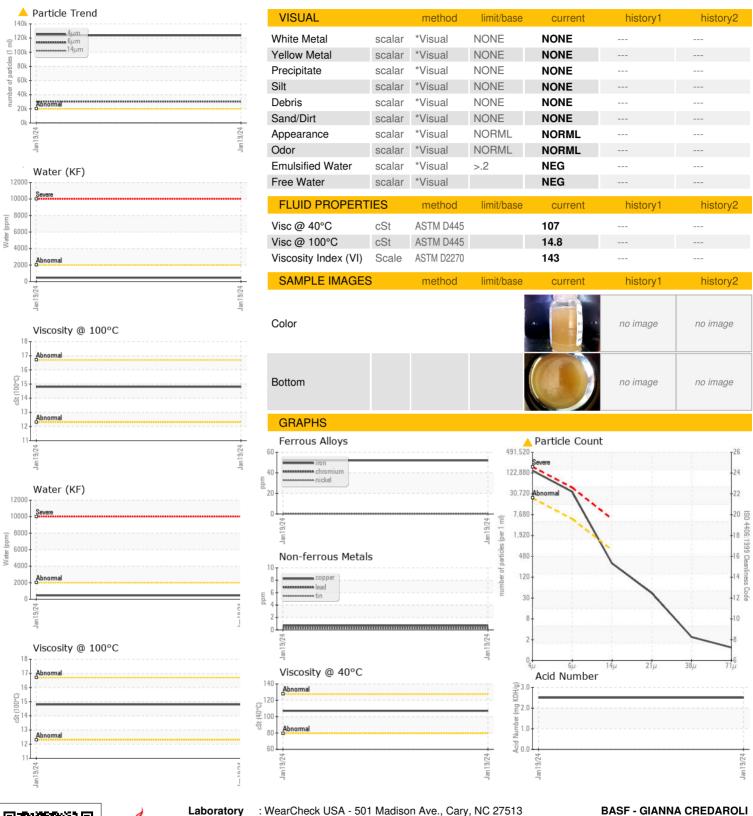
Acid Number (AN)

mg KOH/g ASTM D8045

2.50



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: WC0934523 Lab Number : 06180659

Unique Number : 11031985

Received **Tested** Diagnosed

: 17 May 2024 - Wes Davis Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

BASF - GIANNA CREDAROLI

500 WHITE PLAINS RD TARRYTOWN, NY US 10591

Contact: GIANNA CREDAROLI gianna.credaroli@basf.com

: 15 May 2024

: 17 May 2024

T:

F: