

## **OIL ANALYSIS REPORT**

Sample Rating Trend



### Area **METRO 25004**

Front Differential Fluic GEAR OIL SAE 80 (--- GAL)

#### DIAGNOSIS

#### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

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

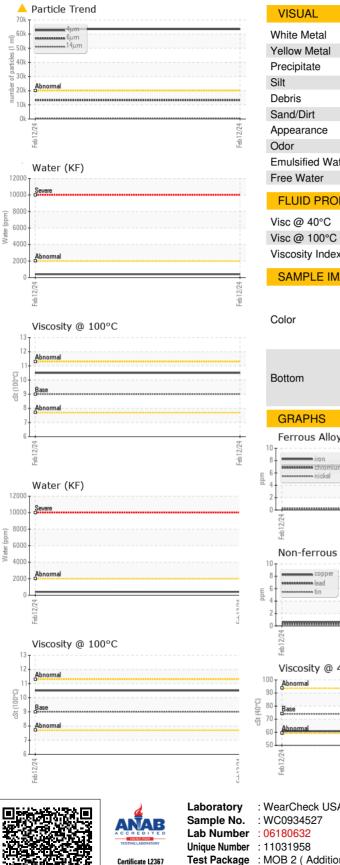
#### Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934527		
Sample Date		Client Info		12 Feb 2024		
Machine Age	mls	Client Info		9		
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	7		
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	ASTM D5185m	>100	<1		
Vanadium	ppm	ASTM D5185m	210	<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	312		
Barium	ppm	ASTM D5185m	200	0		
Molybdenum	ppm	ASTM D5185m	12	<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	12	<1		
Calcium	ppm	ASTM D5185m	150	2		
Phosphorus	ppm	ASTM D5185m	1650	- 1680		
Zinc	ppm	ASTM D5185m	125	0		
Sulfur	ppm	ASTM D5185m	22500	29546		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	2		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>.2	0.040		
ppm Water	ppm	ASTM D6304	>2000	403		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>6</b> 3416		
Particles >6µm		ASTM D7647	>5000	<u> </u>		
Particles >14µm		ASTM D7647	>640	431		
Particles >21µm		ASTM D7647	>160	78		
Particles >38µm		ASTM D7647	>40	2		
		ASTM D7647	>10	0		
Particles >71µm		101111 01011				
		ISO 4406 (c)	>21/19/16	<b>A</b> 23/21/16		
Particles >71µm			>21/19/16 limit/base	23/21/16 current	history1	 history2



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UAL		method	limit/base	current	history1	history2
Metal	scalar	*Visual	NONE	NONE		
v Metal	scalar	*Visual	NONE	NONE		
oitate	scalar	*Visual	NONE	NONE		
	scalar	*Visual	NONE	NONE		
;	scalar	*Visual	NONE	NONE		
Dirt	scalar	*Visual	NONE	NONE		
Irance	scalar	*Visual	NORML	NORML		
	scalar	*Visual	NORML	NORML		
ified Water	scalar	*Visual	>.2	NEG		
Vater	scalar	*Visual		NEG		
ID PROPERT	IFS	method	limit/base	current	history1	history2
0 40°C	cSt	ASTM D445	74	60.8		
⊉ 100°C	cSt	ASTM D445	9.0	10.5		
ity Index (VI)	Scale	ASTM D2270	94	163		
IPLE IMAGES	6	method	limit/base	current	history1	history2
					no image	no image
				a a a a a a a a a a a a a a a a a a a	5	0
า					no image	no image
APHS						
ous Alloys				Particle Count		
iron			491,520	Severe		T <sup>26</sup>
eeeee chromium			122,880	f · ·		-24
			30,720	Abnormal		-22
			1,680 47,680			-20
			1200 12012/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/			-18 -16 -14
ferrous Metal	5		연구 480			-16
			of ba			
copper				1		
tin			20 20	-		-12
			8	-	)	-10
			4			
			Feb12/24			
			<u>ت</u> 0	4μ 6μ	14µ 21µ	38µ 71µ
sity @ 40°C			<u>.</u>	Acid Number		
nal			(0) H 4.0 H 4.0 H 4.0 H 3.0 H 2.0 H 4.0 H	Abnormal		
*****			E 2 0	Base		
nal				Abnormal		
				T		
			eb12/24	- <del>b</del> 12/24 -		- 2010 the
			Feb1	Feb1		Coh 1
neck USA - 50 <sup>-</sup>	Madisc	on Ave., Cary	, NC 27513	E	BASF - GIANN	A CREDAROL
			May 2024			TE PLAINS RE
4527	Rece					
4527 <mark>32</mark> 58	Teste	ed : 17	' May 2024 ' May 2024 May 2024 - Jonat			RYTOWN, N US 1059

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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)

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Contact/Location: GIANNA CREDAROLI - BASTARHD

Т:

F:

gianna.credaroli@basf.com