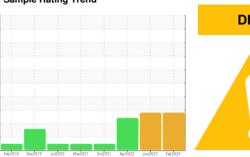


# **OIL ANALYSIS REPORT**

Sample Rating Trend





METRO
METRO 20011

Component
Rear Differential

Fluid

{not provided} (--- GAL)

### DIAGNOSIS

#### 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. Elemental level of silicon (Si) above normal.

#### **Fluid Condition**

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

		Feb 2019 D	lec2019 Jul2020 Mar20	21 Oct2021 Apr2022 Jun2023	Feb2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934518	WC0828738	WC0692947
Sample Date		Client Info		02 Feb 2024	23 Jun 2023	21 Apr 2022
Machine Age	mls	Client Info		509018	458573	338801
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	history1	history2
Iron	ppm	ASTM D5185m	>500	461	423	<b>△</b> 694
Chromium	ppm	ASTM D5185m	>10	4	4	5
Nickel	ppm	ASTM D5185m	>10	2	2	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	8	8	4
Lead	ppm	ASTM D5185m	>25	<1	0	<1
Copper	ppm	ASTM D5185m	>100	4	3	4
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		381	387	401
Barium	ppm	ASTM D5185m		2	6	0
Molybdenum	ppm	ASTM D5185m		1	<1	1
Manganese	ppm	ASTM D5185m		7	6	19
Magnesium	ppm	ASTM D5185m		7	5	2
Calcium	ppm	ASTM D5185m		18	18	17
Phosphorus	ppm	ASTM D5185m		2354	2006	2119
Zinc	ppm	ASTM D5185m		12	13	8
Sulfur	ppm	ASTM D5185m		28848	23829	21553
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<u> </u>	<u> </u>	<b>△</b> 92
Sodium	ppm	ASTM D5185m		11	8	8
Potassium	ppm	ASTM D5185m	>20	8	7	6
Water	%	ASTM D6304		0.044	0.060	0.055
ppm Water	ppm	ASTM D6304	>2000	444	607.6	551.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	<u> </u>	▲ 155245	
Particles >6µm		ASTM D7647	>5000	<u>^</u> 24329	<u>▲</u> 45344	
Particles >14μm		ASTM D7647	>640	479	61	
Particles >21µm		ASTM D7647	>160	90	13	
Particles >38μm		ASTM D7647	>40	1	1	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/22/16	<u>4</u> 24/23/13	
FLUID DEGRADA		method	limit/base		history1	history2



## OIL ANALYSIS REPORT





Certificate 12367

Sample No.

Lab Number Unique Number : 11031970

: WC0934518 : 06180644

Received **Tested** 

: 17 May 2024 Diagnosed : 18 May 2024 - Jonathan Hester Test Package : MOB 2 ( Additional Tests: KF, KV100, PrtCount, VI )

: 15 May 2024

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)

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