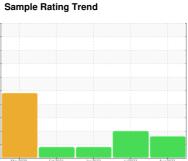


# **OIL ANALYSIS REPORT**



**WEAR** 

# METRO **METRO 21035**

Component

**Transmission (Manual)** 

NOT GIVEN (--- GAL)

### **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

The aluminum level is abnormal. All other component wear rates are normal.

#### Contamination

There is a moderate amount of visible silt present in the sample.

### **Fluid Condition**

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

		May2020	Feb 2021	Jan2022 Jul2022	Aug2023	
SAMPLE INFORM	MATION	method	limit/base			hioton/2
	MATION		IIIIII/Dase	current	history1	history2
Sample Number		Client Info		WC0853875	WC0728451	WC0661188
Sample Date		Client Info		23 Aug 2023	08 Jul 2022	05 Jan 2022
Machine Age	mls	Client Info		286291	175161	138278
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	>200	109	79	90
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<u>224</u>	<b>△</b> 194	<u></u> 158
Lead	ppm	ASTM D5185m	>45	<1	<1	<1
Copper	ppm	ASTM D5185m	>225	26	20	17
Tin	ppm	ASTM D5185m	>10	14	11	10
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		234	222	236
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		4	3	4
Magnesium	ppm	ASTM D5185m		2	0	6
Calcium	ppm	ASTM D5185m		56	54	57
Phosphorus	ppm	ASTM D5185m		1078	1146	1067
Zinc	ppm	ASTM D5185m		18	11	16
Sulfur	ppm	ASTM D5185m		1887	2178	2450
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	31	23	23
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m	>20	5	3	<1
Water	%	ASTM D6304	>0.1	0.057	0.078	0.024
ppm Water	ppm	ASTM D6304	>1000	578.1	784.6	248.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000		▲ 468867	
Particles >6µm		ASTM D7647	>2500		▲ 61910	
Particles >14µm		ASTM D7647	>320		74	
Particles >21µm		ASTM D7647	>80		10	
Particles >38µm		ASTM D7647	>20		2	
Particles >71µm		ASTM D7647			0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15		△ 26/23/13	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
			mm/base			
Acid Number (AN)	mg KOH/g	ASTM D8045		3.17	3.20	3.91



## **OIL ANALYSIS REPORT**

