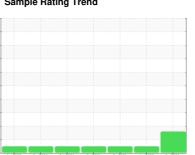


# **OIL ANALYSIS REPORT**

## Sample Rating Trend







# METRO **METRO 21037**

Component

**Front Differential** 

NOT GIVEN (--- GAL)

### **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Gear wear is indicated.

### Contamination

There is a moderate 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.

		Jun2020	Sep2020 Feb2021	0et2021 0et2021 Jun2022	Oct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843126	WC0712570	WC0642297
Sample Date		Client Info		26 Oct 2023	10 Jun 2022	13 Oct 2021
Machine Age	mls	Client Info		349959	205132	135638
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>△</b> 538	452	331
Chromium	ppm	ASTM D5185m	>10	4	4	3
Nickel	ppm	ASTM D5185m	>10	3	3	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	3	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	1	1	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m	>5			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		51	61	80
Barium	ppm	ASTM D5185m		2	0	<1
Molybdenum	ppm	ASTM D5185m		<1	1	0
Manganese	ppm	ASTM D5185m		10	9	7
Magnesium	ppm	ASTM D5185m		173	194	182
Calcium	ppm	ASTM D5185m		8	0	5
Phosphorus	ppm	ASTM D5185m		1595	1804	1770
Zinc	ppm	ASTM D5185m		15	4	5
Sulfur	ppm	ASTM D5185m		22259	23335	34666
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	45	28	23
Sodium	ppm	ASTM D5185m		8	4	6
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>.2	0.046	0.042	0.058
ppm Water	ppm	ASTM D6304	>2000	466.6	421.2	581.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>1779</b>		
Particles >6µm		ASTM D7647	>5000	2204		
Particles >14μm		ASTM D7647	>640	67		
Particles >21μm		ASTM D7647	>160	22		
Particles >38μm		ASTM D7647	>40	1		
Particles >71μm		ASTM D7647	>10	1		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>22/18/13</b>		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	1/011/	10T11 D0015				

0.78

0.85

0.799



# **OIL ANALYSIS REPORT**

