

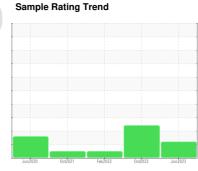
OIL ANALYSIS REPORT

METRO **METRO 21034**

Component

Front Differential

NOT GIVEN (--- GAL)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates.

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.

		Jun2020	0ct2021	Feb2022 Oct2022	Jun2023	
SAMPLE INFORM	1ATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0828797	WC0751716	WC0666414
Sample Date		Client Info		07 Jun 2023	14 Oct 2022	25 Feb 2022
Machine Age	mls	Client Info		305726	253641	186451
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>500	249	499	434
Chromium	ppm	ASTM D5185m	>10	2	5	4
Nickel	ppm	ASTM D5185m	>10	2	1	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	4	4
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	2	2	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		356	257	322
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		1	1	1
Manganese	ppm	ASTM D5185m		7	23	22
Magnesium	ppm	ASTM D5185m		16	11	13
Calcium	ppm	ASTM D5185m		20	24	20
Phosphorus	ppm	ASTM D5185m		2123	1999	2051
Zinc	ppm	ASTM D5185m		11	19	15
Sulfur	ppm	ASTM D5185m		29232	25627	20249
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>75	66	<u> </u>	69
Sodium	ppm	ASTM D5185m		11	10	10
Potassium	ppm	ASTM D5185m	>20	4	5	1
Water	%	ASTM D6304	>.2	0.075	0.041	0.056
ppm Water	ppm	ASTM D6304	>2000	750.3	416.1	561.8
FLUID CLEANLIN	ESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>20000	78627	▲ 71731	
Particles >6µm		ASTM D7647	>5000	<u></u> 5581	3775	
Particles >14µm		ASTM D7647	>640	37	131	
Particles >21µm		ASTM D7647	>160	9	41	
Particles >38µm		ASTM D7647	>40	1	3	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	23/20/12	<u>△</u> 23/19/14	
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045		3.02	3.20	3.50



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