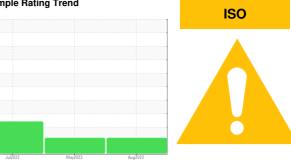


OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

limit/base



current

history1

history2

METRO METRO 23003 Component

Rear Differential NOT GIVEN (--- GAL)

DIAGNOSIS

A 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.

Fluid Condition

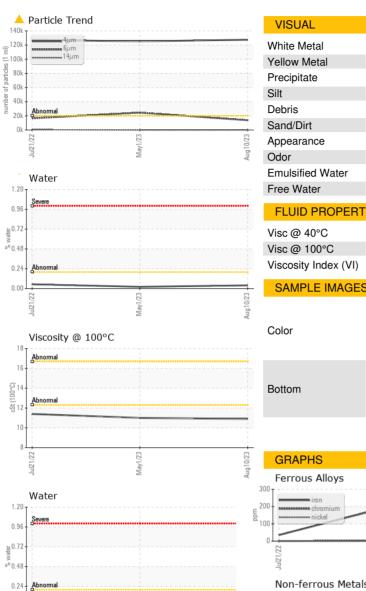
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

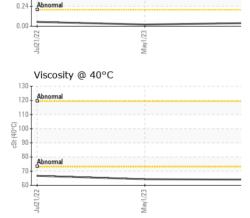
		method	iiiiii/base	Current	Thistory I	Thistory 2
Sample Number		Client Info		WC0843185	WC0815552	WC0728439
Sample Date		Client Info		10 Aug 2023	01 May 2023	21 Jul 2022
Machine Age	mls	Client Info		91106	63195	15
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	258	188	35
Chromium	ppm	ASTM D5185m	>10	2	1	0
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	0
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	2	2	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		448	461	418
Barium	ppm	ASTM D5185m		11	3	5
Molybdenum	ppm	ASTM D5185m		2	1	<1
Manganese	ppm	ASTM D5185m		5	4	1
Magnesium	ppm	ASTM D5185m		6	5	5
Calcium	ppm	ASTM D5185m		23	24	15
Phosphorus	ppm	ASTM D5185m		1924	2188	1855
Zinc	ppm	ASTM D5185m		15	10	8
Sulfur	ppm	ASTM D5185m		27665	25056	25056
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	54	45	10
Sodium	ppm	ASTM D5185m		8	10	7
Potassium	ppm	ASTM D5185m	>20	2	4	0
Water	%	ASTM D6304		0.039	0.021	0.052
ppm Water	ppm	ASTM D6304	>2000	395.3	213.4	526.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	127509	125258	127273
Particles >6µm		ASTM D7647		<u> </u>	<u> </u>	▲ 16462
Particles >14µm		ASTM D7647	>640	30	22	506
Particles >21µm		ASTM D7647		8	3	85
Particles >38µm		ASTM D7647	>40	1	0	6
Particles >71µm		ASTM D7647		0	0	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 24/21/12	▲ 24/22/12	▲ 24/21/16
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		3.43	3.25	▲ 3.53



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OIL ANALYSIS REPORT





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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		64.0	64.3	66.7
Visc @ 100°C	cSt	ASTM D445		10.9	11.0	11.4
Viscosity Index (VI)	Scale	ASTM D2270		162	163	165
SAMPLE IMAGES		method	limit/base	current	history1	history2
				INC.	Red Unit	

