

OIL ANALYSIS REPORT

DIRT

NOVA 157 Component **Rear Transmission (Auto)** CASTROL TRANSYND (--- GAL)

DIAGNOSIS

Recommendation

A Wear

Contamination

Fluid Condition



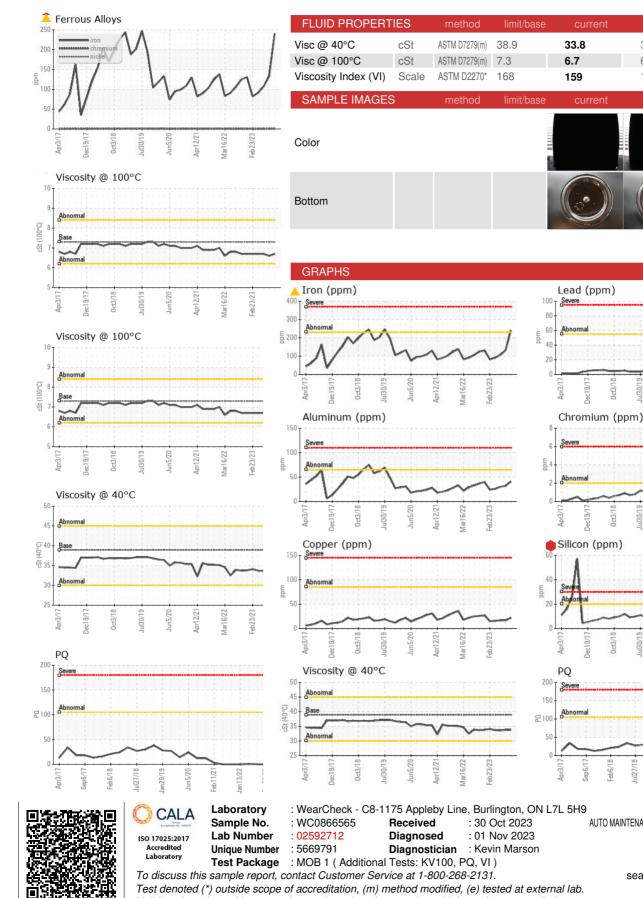


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DIAGNOSIS	SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base		history1	history2
Recommendation	Sample Number		Client Info		WC0866565	WC0816504	WC0816451
We advise that you check all areas where dirt can	Sample Date		Client Info		24 Oct 2023	20 Jul 2023	01 Jun 2023
enter the system. We recommend that you drain the fluid from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with fluid. We recommend an early resample to monitor this condition.	Machine Age	kms	Client Info		0	0	0
	Oil Age	kms	Client Info		27190	37620	28204
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Sample Status				SEVERE	NORMAL	NORMAL
	WEAR METALS		method	limit/base		history1	history2
▲ Wear							
 Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. Contamination High concentration of dirt present in the fluid. High amount of ingressed dirt has caused abrasive wear to the component. 	PQ		ASTM D8184*	>105	2		
	Iron	ppm	ASTM D5185(m)		<u> </u>	133	107
	Chromium	ppm	ASTM D5185(m)		<1	<1	<1
	Nickel	ppm	ASTM D5185(m)		<1	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)		<1	0	0
	Aluminum	ppm	ASTM D5185(m)		41	32	30
Fluid Condition The fluid is no longer serviceable as a result of the abnormal and/or severe wear.	Lead	ppm	ASTM D5185(m)		7	5	5
	Copper	ppm	ASTM D5185(m)		22	17	17
	Tin	ppm	ASTM D5185(m)	>0	4	3	3
	Antimony	ppm	ASTM D5185(m)		0	0	0
	Vanadium Beryllium	ppm	ASTM D5185(m) ASTM D5185(m)		0	0	0
	Cadmium	ppm			0	0	0
		ppm	ASTM D5185(m)		U	0	0
	ADDITIVES		method	limit/base		history1	history2
	Boron	ppm	ASTM D5185(m)	150	80	79	86
	Barium	ppm	ASTM D5185(m)		0	0	0
	Molybdenum	ppm	ASTM D5185(m)	0	0	<1	<1
	Manganese	ppm	ASTM D5185(m)		1	1	1
	Magnesium	ppm	ASTM D5185(m)	0	2	1	1
	Calcium	ppm	ASTM D5185(m)		130	130	140
	Phosphorus	ppm	ASTM D5185(m)	320	300	328	339
	Zinc	ppm	ASTM D5185(m)		9	9	7
	Sulfur	ppm	. ,	1050	1657	1698	1819
	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
	CONTAMINANTS	\$	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>20	e 38	15	9
	Sodium	ppm	ASTM D5185(m)		9	7	7
	Potassium	ppm	ASTM D5185(m)	>20	<1	1	2
	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		Visual*	NONE	NONE	NONE	NONE
	Sand/Dirt		Visual*	NONE	NONE	NONE	NONE
	Appearance		Visual*	NORML	NORML	NORML	NORML
	Odor		Visual*	NORML	NORML	NORML	NORML
Report Id: CITTHI I [WCAMIS] 02502712 (Constant 11/01/2022 04	Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
Report Id: CITTHU [WCAMIS] 02592712 (Generated: 11/01/2023 0	Free Water	scalar	Visual*		NEG	cationESean Ma	Page 1 of 2



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Validity of results and interpretation are based on the sample and information as supplied.

33.8

6.6

154

33.6

6.7

161

/ar16/22

6/22

Var16/22

eb11/2

CITY OF THUNDER BAY

eh 23/73

Apr12/2

vor12/2

lct3/1

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