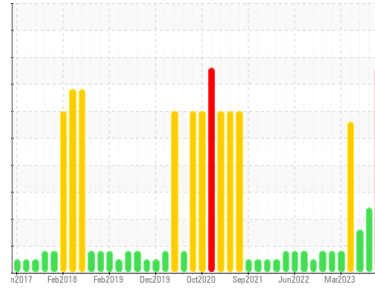




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
NOVA BUS 159
 Component
Rear Transmission (Auto)
 Fluid
CASTROL TRANSYND (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

Contamination

There is a moderate concentration of dirt present in the fluid. High amount of ingressed dirt has caused abrasive wear to the component.

Fluid Condition

The AN level is acceptable for this fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0889184	WC0866635	WC0816499
Sample Date	Client Info		28 Dec 2023	15 Nov 2023	13 Jul 2023
Machine Age	kms	Client Info	0	0	0
Oil Age	kms	Client Info	31839	22319	39873
Oil Changed	Client Info		Not Changed	Not Changd	Not Changed
Sample Status			SEVERE	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*	>105	60	20	---
Iron	ppm	ASTM D5185(m) >230	431	287	158
Chromium	ppm	ASTM D5185(m) >2	<1	<1	<1
Nickel	ppm	ASTM D5185(m) >5	<1	0	<1
Titanium	ppm	ASTM D5185(m) >2	0	0	0
Silver	ppm	ASTM D5185(m) >5	0	<1	<1
Aluminum	ppm	ASTM D5185(m) >65	49	45	39
Lead	ppm	ASTM D5185(m) >55	2	1	<1
Copper	ppm	ASTM D5185(m) >85	14	12	8
Tin	ppm	ASTM D5185(m) >5	<1	<1	<1
Antimony	ppm	ASTM D5185(m)	0	0	0
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 150	56	59	58
Barium	ppm	ASTM D5185(m) 0	0	0	0
Molybdenum	ppm	ASTM D5185(m) 0	0	0	<1
Manganese	ppm	ASTM D5185(m)	5	3	2
Magnesium	ppm	ASTM D5185(m) 0	2	2	2
Calcium	ppm	ASTM D5185(m) 40	123	122	119
Phosphorus	ppm	ASTM D5185(m) 320	225	225	235
Zinc	ppm	ASTM D5185(m) 5	5	5	5
Sulfur	ppm	ASTM D5185(m) 1050	1448	1392	1390
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	23	25	22
Sodium	ppm	ASTM D5185(m)	6	6	5
Potassium	ppm	ASTM D5185(m) >20	1	<1	1

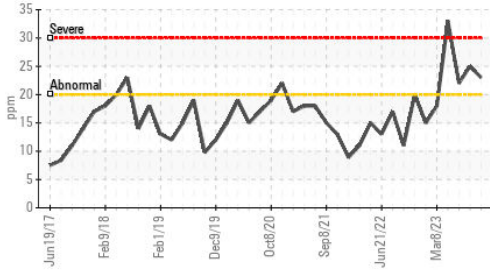
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 1.0	1.76	1.40	1.22

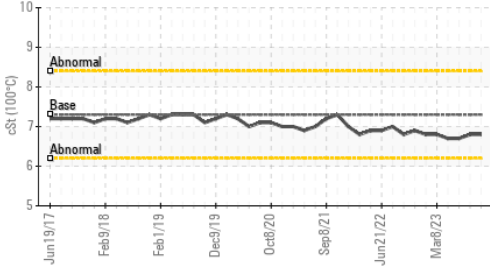


OIL ANALYSIS REPORT

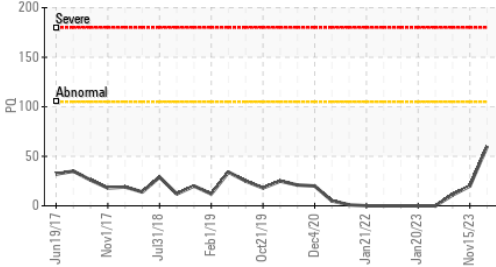
▲ Silicon (ppm)



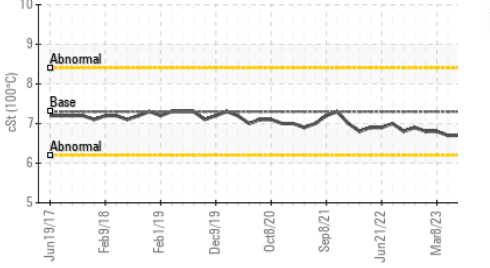
Viscosity @ 100°C



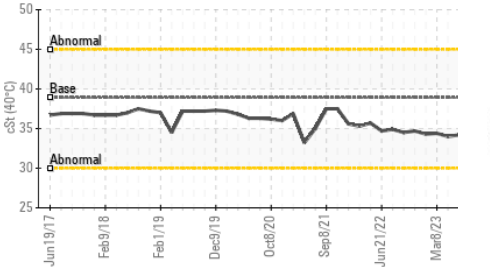
PQ



Viscosity @ 100°C



Viscosity @ 40°C



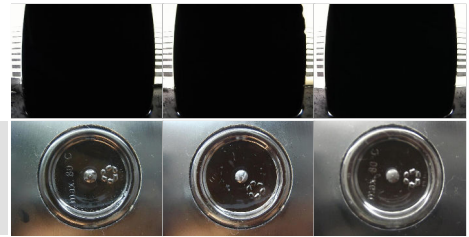
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	34.8	34.6
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.8	6.8
Viscosity Index (VI)	Scale	ASTM D2270*	168	157	159

SAMPLE IMAGES	method	limit/base	current	history1	history2
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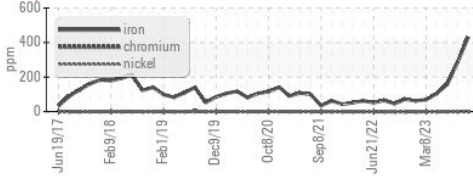
Color

Bottom

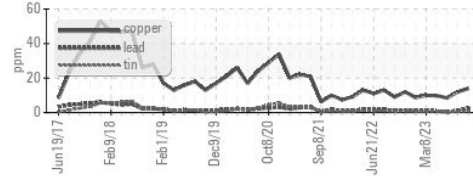


GRAPHS

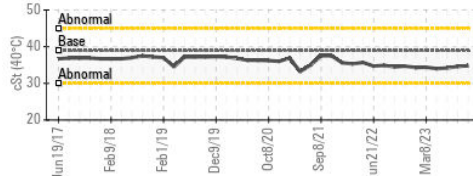
● Ferrous Alloys



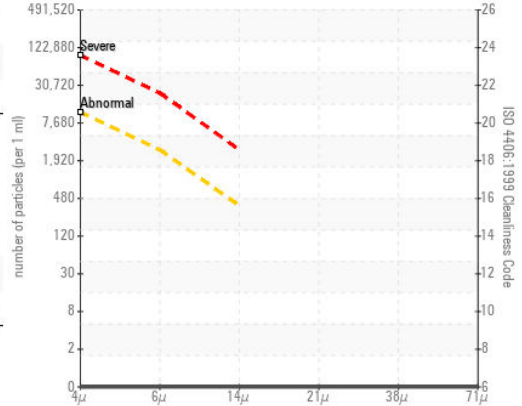
Non-ferrous Metals



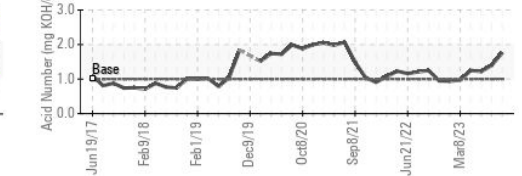
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889184
Lab Number : **02606814**
Unique Number : 5707900
Test Package : MOB 2 (Additional Tests: KV100, PQ, PrcCount, TAN Man, Vi)

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*To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.*