



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
NOVA BUS 172
 Component
Rear Transmission (Auto)
 Fluid
CASTROL TRANSYND (--- LTR)

RECOMMENDATION

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

Copper ppm levels are abnormal. A sharp increase in the copper level is noted. Clutch disc wear or oil cooler leaching indicated.

CONTAMINATION

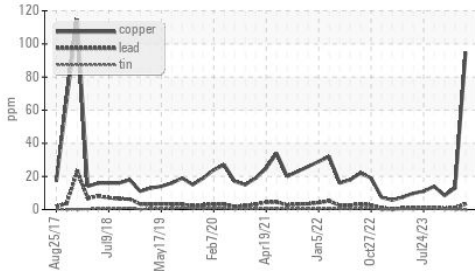
There is no indication of any contamination in the fluid.

FLUID CONDITION

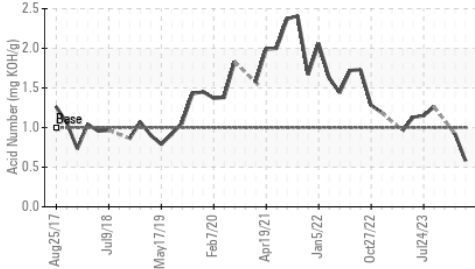
The AN level is acceptable for this fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0889010	WC0889096	WC0866445
Sample Date		Client Info		24 Apr 2024	15 Jan 2024	27 Nov 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		27438	18924	9409
Filter Age	kms	Client Info		27438	18924	9409
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
PQ		ASTM D8184*	>105	0	0	---
Iron	ppm	ASTM D5185(m)	>230	48	24	20
Chromium	ppm	ASTM D5185(m)	>2	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>65	7	7	6
Lead	ppm	ASTM D5185(m)	>55	3	1	<1
Copper	ppm	ASTM D5185(m)	>85	▲ 95	13	8
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>20	5	3	3
Potassium	ppm	ASTM D5185(m)	>20	2	4	3
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
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*	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		8	19	12
Boron	ppm	ASTM D5185(m)	150	12	28	35
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)	0	4	1	<1
Calcium	ppm	ASTM D5185(m)	40	104	112	111
Phosphorus	ppm	ASTM D5185(m)	320	155	236	226
Zinc	ppm	ASTM D5185(m)	5	13	4	4
Sulfur	ppm	ASTM D5185(m)	1050	1270	1383	1265
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	0.58	0.92	---
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	32.2	33.6	34.0
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.5	6.6	6.7
Viscosity Index (VI)	Scale	ASTM D2270*	168	160	155	158

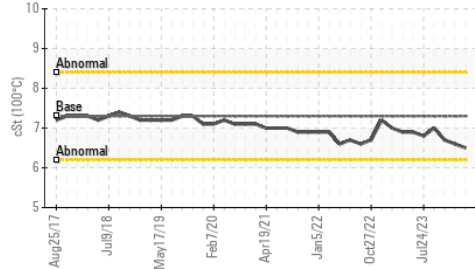
▲ Non-ferrous Metals



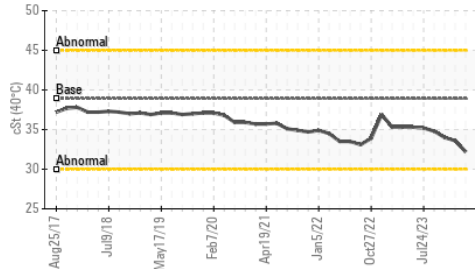
Acid Number



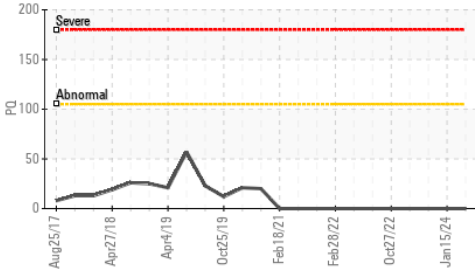
Viscosity @ 100°C



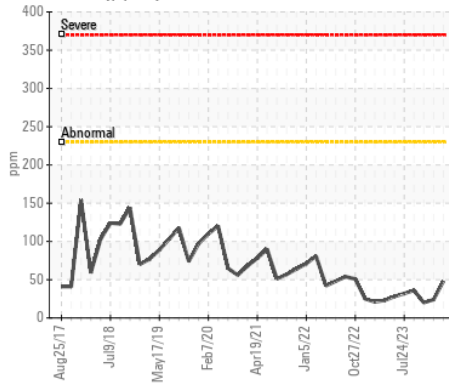
Viscosity @ 40°C



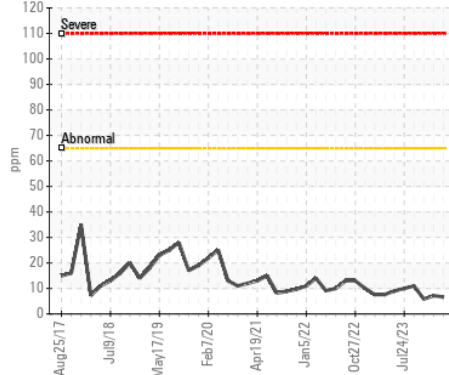
PQ



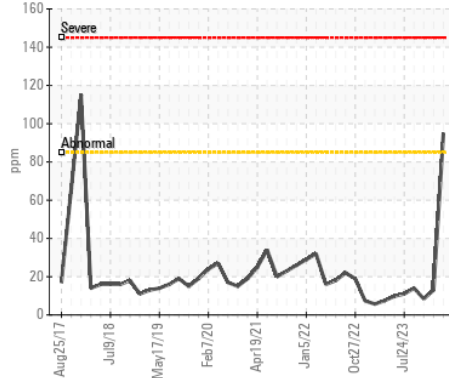
Iron (ppm)



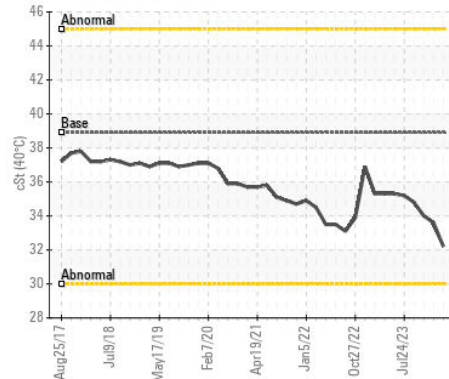
Aluminum (ppm)



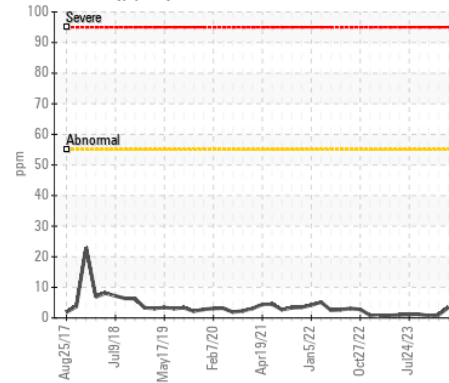
▲ Copper (ppm)



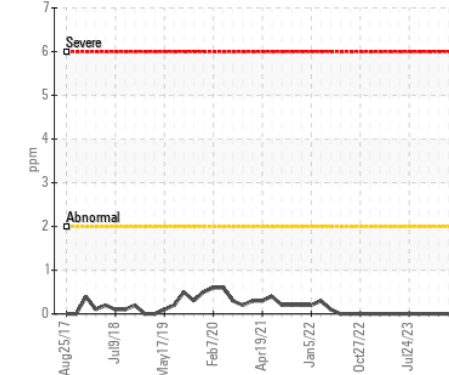
Viscosity @ 40°C



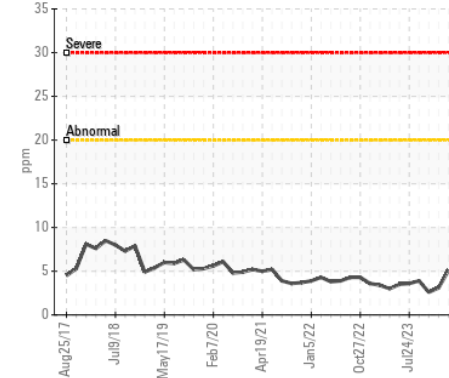
Lead (ppm)



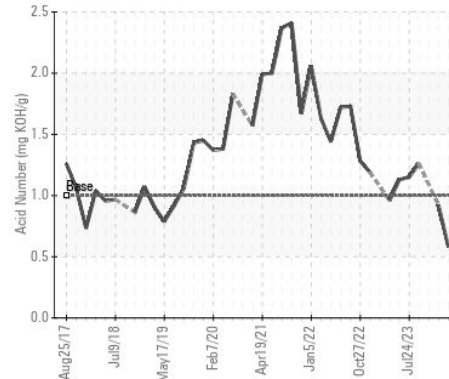
Chromium (ppm)



Silicon (ppm)



Acid Number



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889010 **Received** : 29 Apr 2024
Lab Number : 02632017 **Tested** : 30 Apr 2024
Unique Number : 5773170 **Diagnosed** : 30 Apr 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)

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.

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