



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
NOVA 157

Component
Rear Transmission (Auto)

Fluid
CASTROL TRANSYND (--- GAL)

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 advise that you flush the component thoroughly before re-filling with fluid. We recommend an early resample to monitor this condition.

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.

FLUID CONDITION

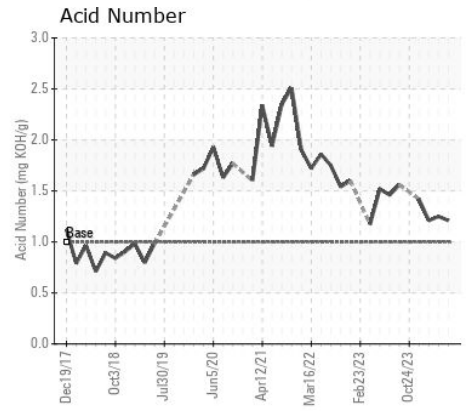
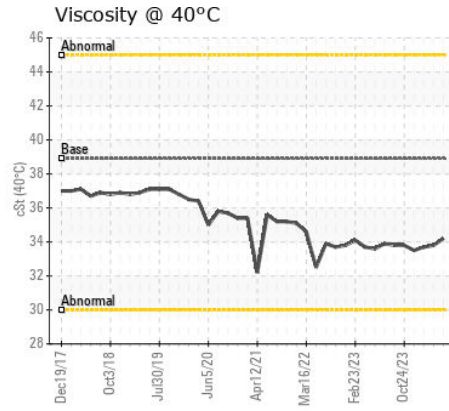
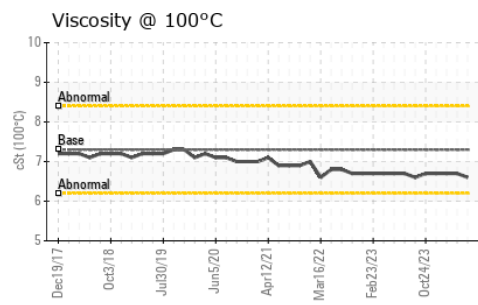
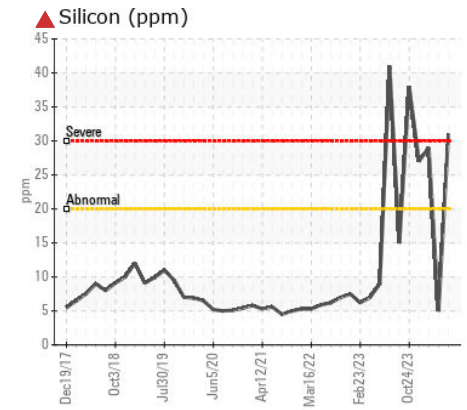
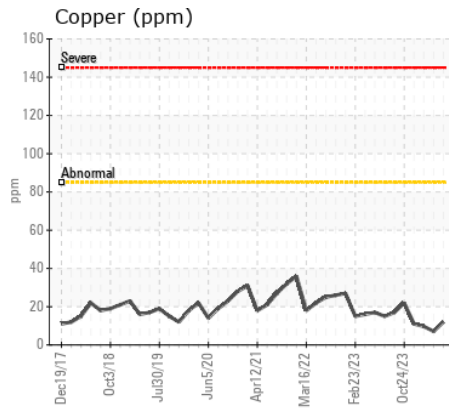
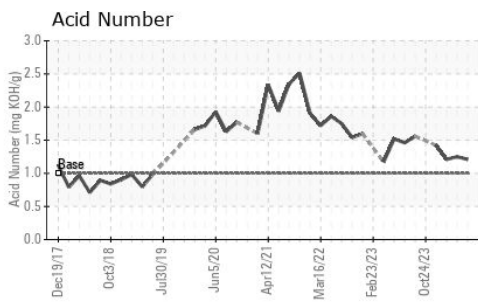
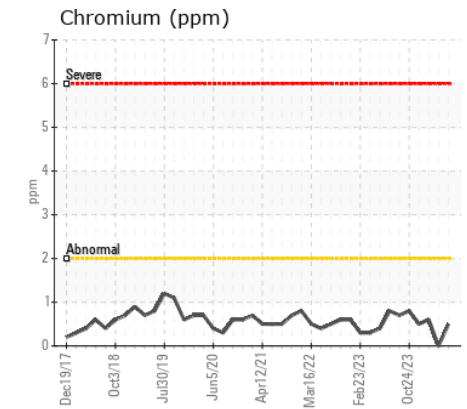
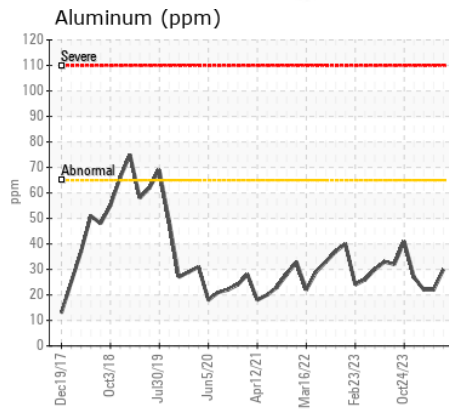
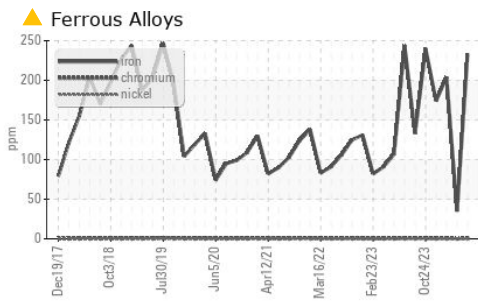
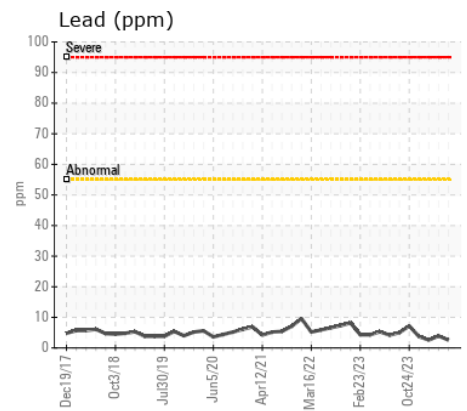
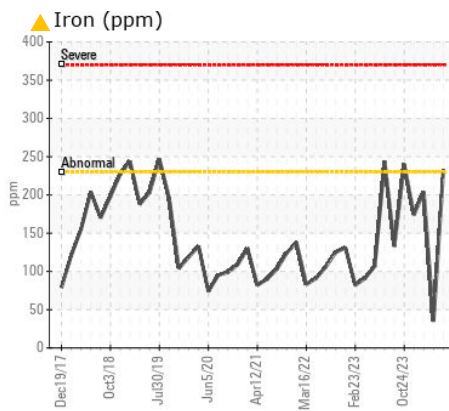
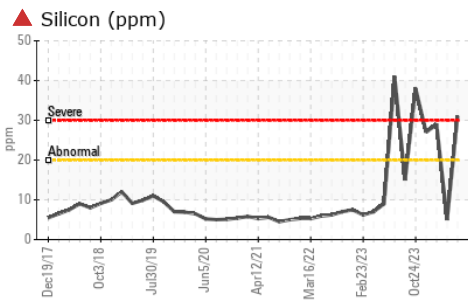
The AN level is acceptable for this fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0889044	WC0889172	WC0889168
Sample Date		Client Info		18 Mar 2024	06 Feb 2024	02 Feb 2024
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		18895	8190	19585
Filter Age	kms	Client Info		18895	8190	19585
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	ABNORMAL

PQ		ASTM D8184*	>105	14	0	25
Iron	ppm	ASTM D5185(m)	>230	▲ 233	35	204
Chromium	ppm	ASTM D5185(m)	>2	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>65	30	22	22
Lead	ppm	ASTM D5185(m)	>55	3	4	3
Copper	ppm	ASTM D5185(m)	>85	12	7	10
Tin	ppm	ASTM D5185(m)	>5	1	1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185(m)	>20	▲ 31	5	▲ 29
Potassium	ppm	ASTM D5185(m)	>20	1	3	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	VLITE
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)		5	4	4
Boron	ppm	ASTM D5185(m)	150	71	61	73
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	3	4	4
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)	0	2	1	1
Calcium	ppm	ASTM D5185(m)	40	139	128	143
Phosphorus	ppm	ASTM D5185(m)	320	232	224	232
Zinc	ppm	ASTM D5185(m)	5	8	7	6
Sulfur	ppm	ASTM D5185(m)	1050	1436	1359	1617
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	1.21	1.25	1.21
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	34.2	33.8	33.7
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.6	6.7	6.7
Viscosity Index (VI)	Scale	ASTM D2270*	168	151	159	160



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889044
Lab Number : 02624998
Unique Number : 5750117
Test Package : MOB 2 (Additional Tests: KV100, PQ, TAN Man, VI)

Received : 27 Mar 2024
Tested : 28 Mar 2024
Diagnosed : 28 Mar 2024 - Kevin Marson

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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.