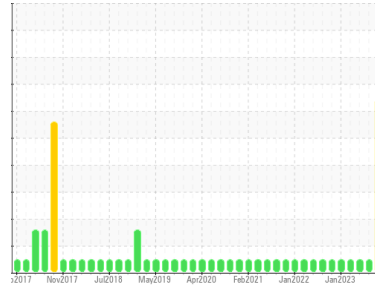




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
NOVA 157
 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 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. Aluminum ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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			WC0866603	WC0816451	WC0730875
Sample Date	Client Info			22 Jun 2023	01 Jun 2023	20 Apr 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		10717	28204	18496
Oil Changed	Client Info			Not Changed	Not Changed	Not Changed
Sample Status				SEVERE	NORMAL	NORMAL

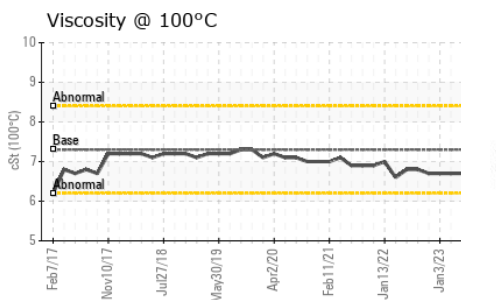
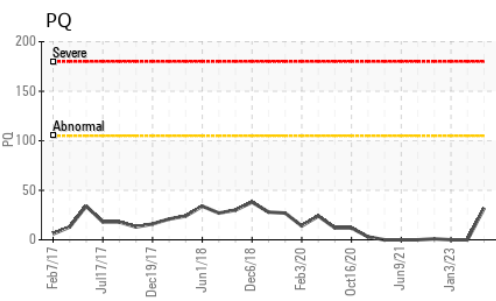
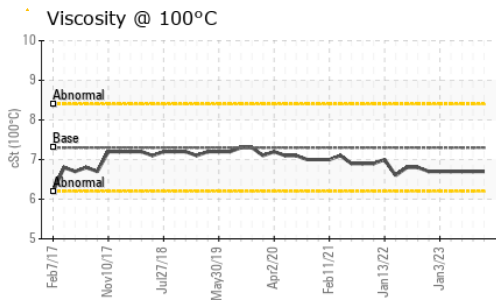
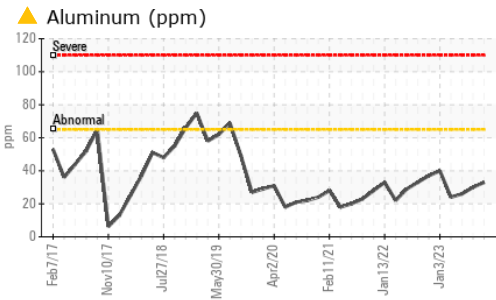
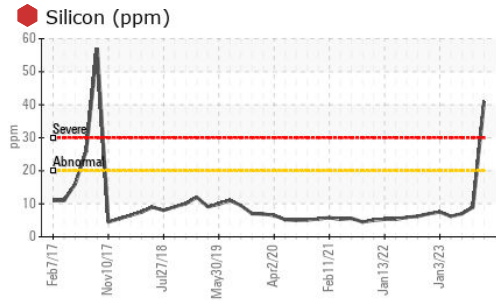
CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>105	32	---	0
Iron	ppm	ASTM D5185(m)	>230	244	107	91
Chromium	ppm	ASTM D5185(m)	>2	<1	<1	<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	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>65	33	30	26
Lead	ppm	ASTM D5185(m)	>55	4	5	4
Copper	ppm	ASTM D5185(m)	>85	15	17	16
Tin	ppm	ASTM D5185(m)	>5	2	3	3
Antimony	ppm	ASTM D5185(m)		0	0	<1
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	75	86	87
Barium	ppm	ASTM D5185(m)	0	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	1	1	2
Calcium	ppm	ASTM D5185(m)	40	128	140	135
Phosphorus	ppm	ASTM D5185(m)	320	253	339	333
Zinc	ppm	ASTM D5185(m)	5	6	7	7
Sulfur	ppm	ASTM D5185(m)	1050	1549	1819	1778
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	41	9	7
Sodium	ppm	ASTM D5185(m)		6	7	6
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<1

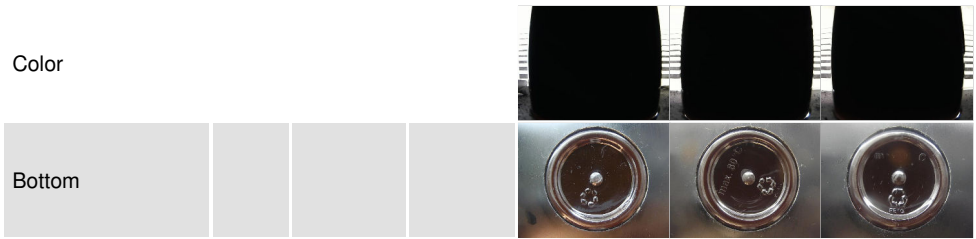
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	1.46	1.52	1.17



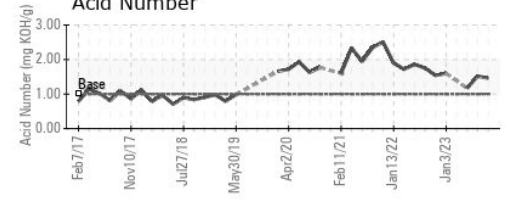
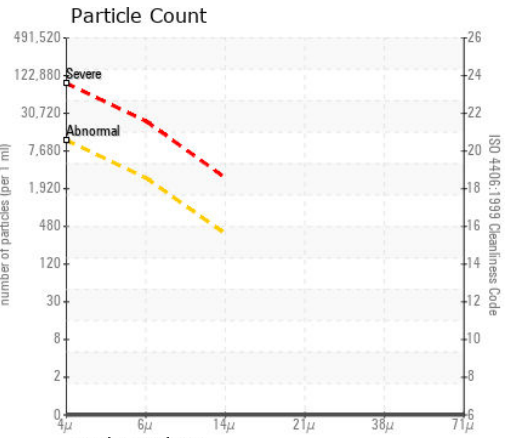
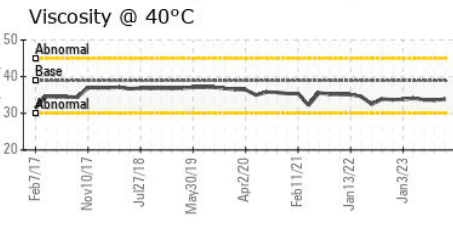
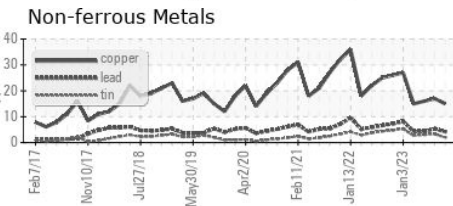
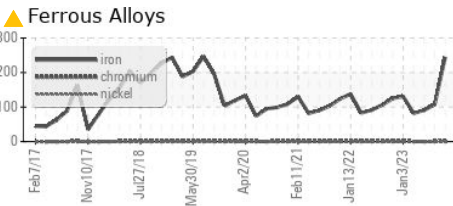
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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	33.6	33.7
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.7	6.7
Viscosity Index (VI)	Scale	ASTM D2270*	168	161	160

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0866603 **Received** : 14 Dec 2023
Lab Number : 02603270 **Diagnosed** : 18 Dec 2023
Unique Number : 5696355 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: KV100, PQ, PrtCount, 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.