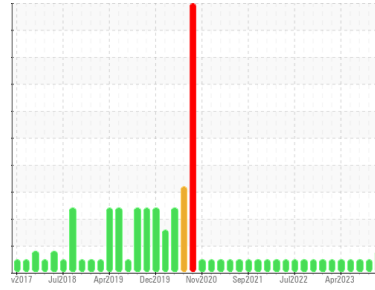




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id

180

Component

Rear Transmission (Auto)

Fluid

CASTROL TRANSYND (24 LTR)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the fluid.

Fluid Condition

The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0866503	WC0866459	WC0816419
Sample Date	Client Info		30 Nov 2023	19 Oct 2023	22 Jun 2023
Machine Age	kms	Client Info	0	0	0
Oil Age	kms	Client Info	39085	29404	18650
Oil Changed	Client Info		Not Changed	Not Changed	Not Changed
Sample Status			MARGINAL	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	
Iron	ppm	ASTM D5185(m)	>230	49	42	35
Chromium	ppm	ASTM D5185(m)	>2	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>5	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>65	14	11	9
Lead	ppm	ASTM D5185(m)	>55	1	1	<1
Copper	ppm	ASTM D5185(m)	>85	9	8	7
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	66	64	66
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	<1
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	1	1
Calcium	ppm	ASTM D5185(m)	40	118	117	116
Phosphorus	ppm	ASTM D5185(m)	320	232	227	244
Zinc	ppm	ASTM D5185(m)	5	6	5	6
Sulfur	ppm	ASTM D5185(m)	1050	1405	1396	1420
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	5	4	4
Sodium	ppm	ASTM D5185(m)		3	3	3
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Fuel	%	ASTM D7593*		▲ 2.3	---	---

INFRA-RED

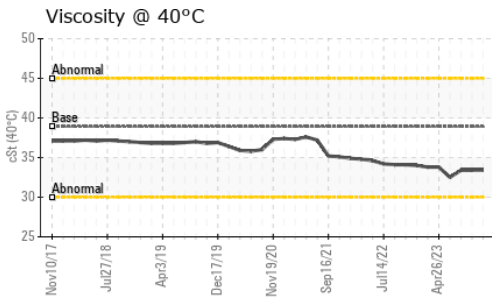
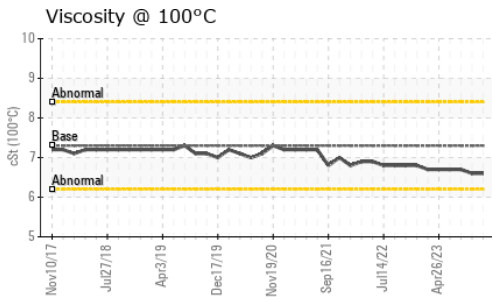
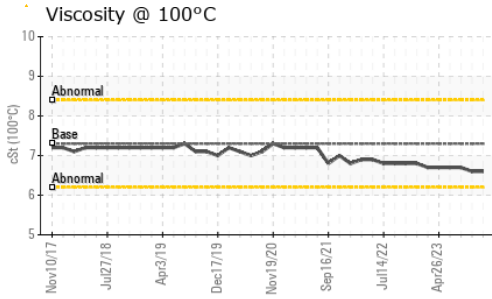
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*		5.5	---	---
Sulfation	Abs/.1mm	ASTM D7415*		31.6	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*		43.7	---	---



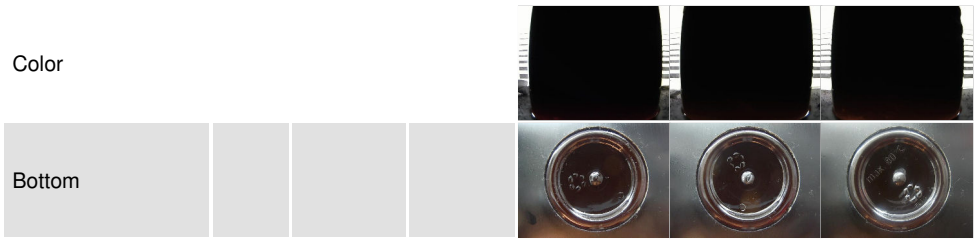
OIL ANALYSIS REPORT



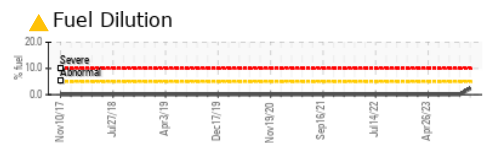
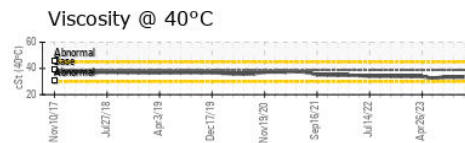
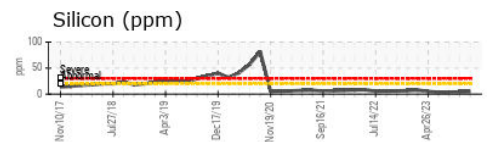
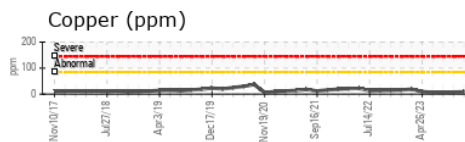
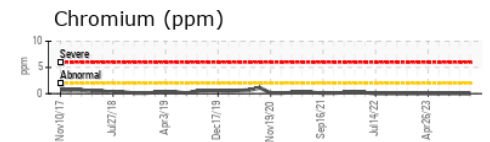
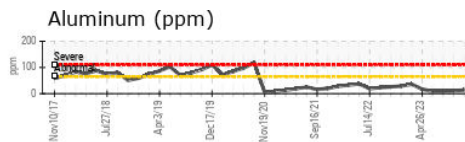
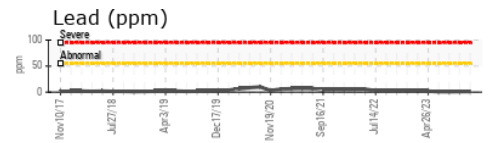
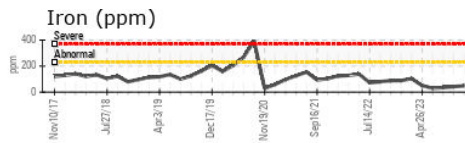
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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	33.4	33.4
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.6	6.7
Viscosity Index (VI)	Scale	ASTM D2270*	168	157	162

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0866503
Lab Number : 02601520
Unique Number : 5694605
Test Package : MOB 1 (Additional Tests: FT-IR, FuelDilution, KV100, PercentFuel, VI)

CITY OF THUNDER BAY
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 THUNDER BAY, ON
 CA P7B 2Z8
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 T: (807)684-2716
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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.