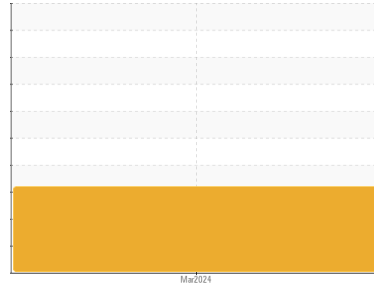




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR PARTICLES



Area

[27450]

Machine Id

1702

Component

Transmission (Auto)

Fluid

ALLISON TES 295 (--- GAL)

DIAGNOSIS

Recommendation

We recommend an early resample to monitor this condition. No other corrective action is recommended at this time. (Customer Sample Comment: POST REPOWER SAMPLE)

Wear

Wear particle analysis indicates that the ferrous cutting and ferrous rolling particles are marginal. All other component wear rates are normal. Cutting wear particles are caused by either hard protuberances (mis-aligned components, etc.), or abrasives entering the system and embedding themselves in softer materials (sand, etc.), and gouging out mating surfaces.

Contaminants

There is no indication of any contamination in the fluid.

Oil Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0916681	---	---
Sample Date	Client Info		28 Mar 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			MARGINAL	---	---

CONTAMINATION

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

WEAR METALS

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

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	150	52	---
Barium	ppm	ASTM D5185(m)	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---
Manganese	ppm	ASTM D5185(m)		0	---
Magnesium	ppm	ASTM D5185(m)	0	10	---
Calcium	ppm	ASTM D5185(m)	40	133	---
Phosphorus	ppm	ASTM D5185(m)	320	201	---
Zinc	ppm	ASTM D5185(m)	5	20	---
Sulfur	ppm	ASTM D5185(m)	1050	1297	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

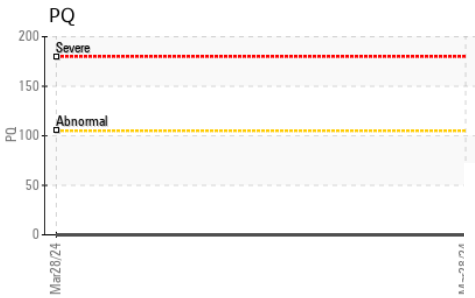
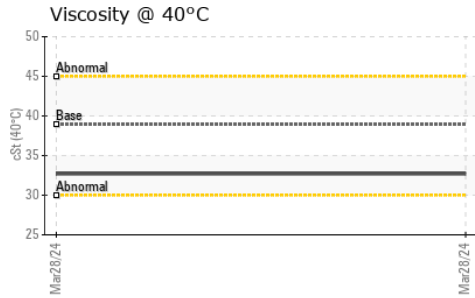
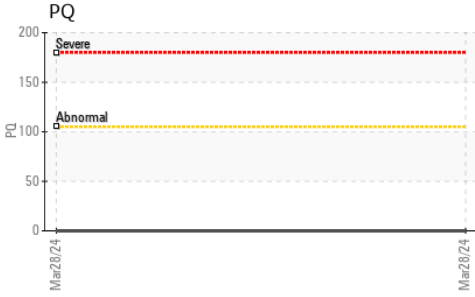
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	6	---
Sodium	ppm	ASTM D5185(m)		6	---
Potassium	ppm	ASTM D5185(m)	>20	3	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	0.96	---



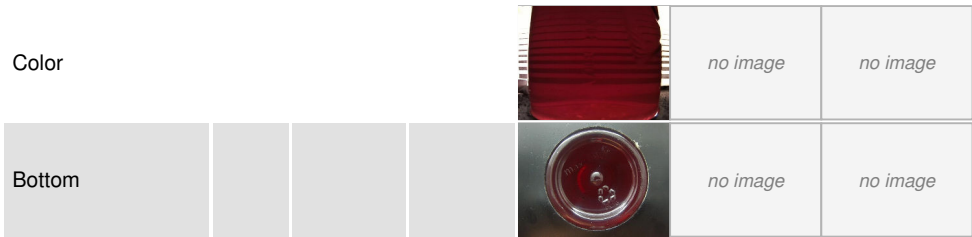
OIL ANALYSIS REPORT



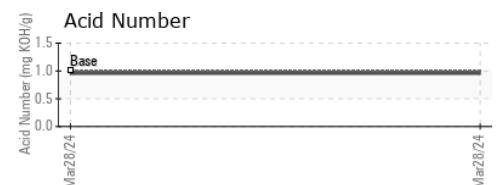
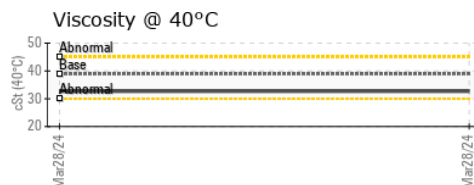
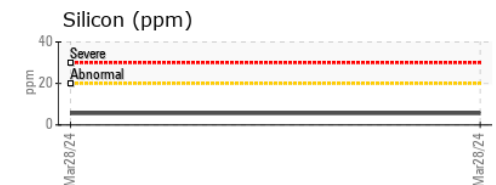
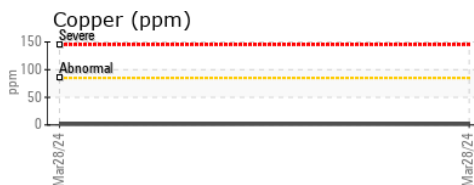
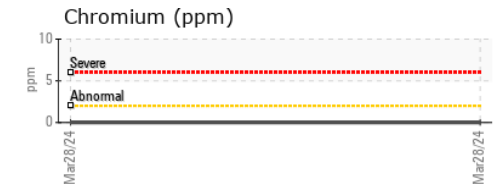
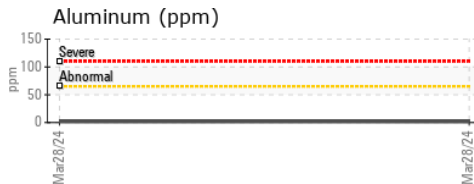
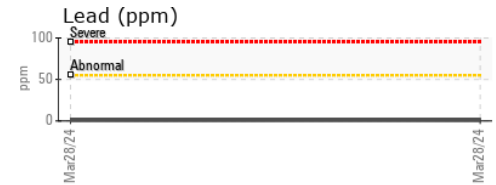
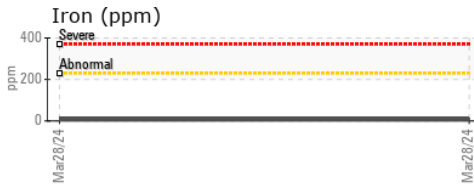
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	32.7	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



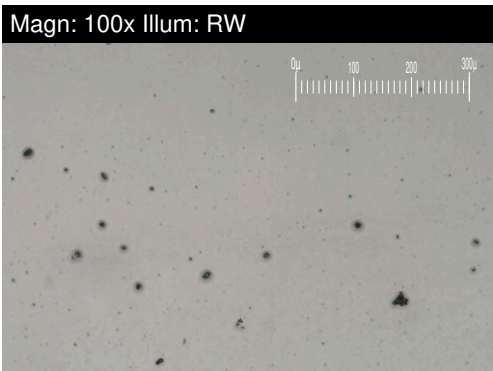
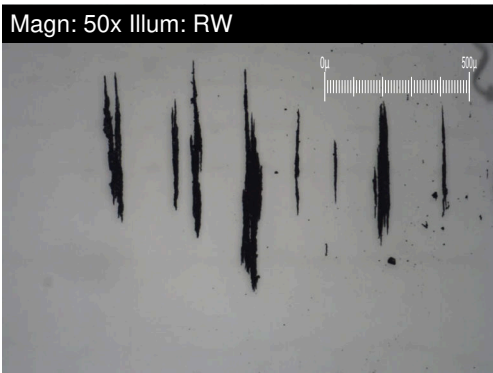
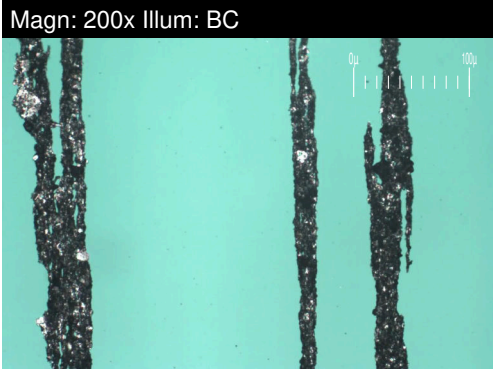
Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0916681
Lab Number : 02626451
Unique Number : 5759583
Test Package : MOB 3

ONTARIO NORTHLAND GARAGE
 567 WALLACE RD
 NORTH BAY, ON
 CA P1A 3T3
 Contact: Alexandra Pavone
 Alexandra.Pavone@ontarionorthland.ca
 T: (705)472-4500
 F: (705)475-5028

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.

FERROGRAPHY REPORT

Area
[27450]
 Machine Id
1702
 Component
Transmission (Auto)
 Fluid
ALLISON TES 295 (--- GAL)

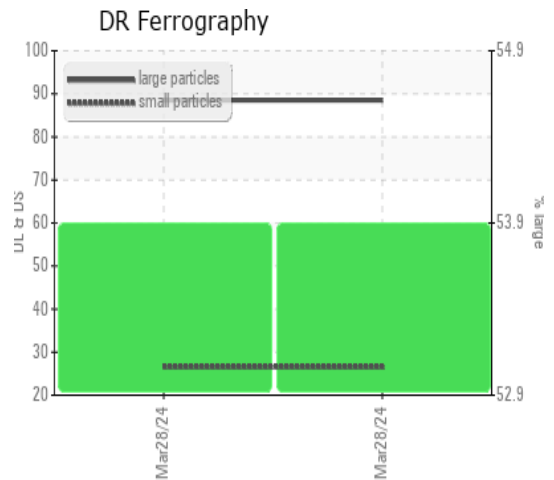


DR-FERROGRAPHY		method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		88.5	---	---
Small Particles		DR-Ferr*		26.5	---	---
Total Particles		DR-Ferr*	>---	115	---	---
Large Particles Percentage	%	DR-Ferr*		53.9	---	---
Severity Index		DR-Ferr*		5487	---	---

FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		■ 4		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*		▲ 1		
Ferrous Rolling	Scale 0-10	ASTM D7684*		▲ 2		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		■ 1		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		■ 1		

WEAR

Wear particle analysis indicates that the ferrous cutting and ferrous rolling particles are marginal. All other component wear rates are normal. Cutting wear particles are caused by either hard protuberances (mis-aligned components, etc.), or abrasives entering the system and embedding themselves in softer materials (sand, etc.), and gouging out mating surfaces.



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