



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ACELA TECUMSEH SUPPORT #2

Component
Transmission (Auto)

Fluid
CASTROL TRANSYND (--- GAL)

RECOMMENDATION

We recommend that you drain the fluid from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

WEAR

Copper ppm levels are abnormal. Clutch disc wear or oil cooler leaching indicated. Component wear metal level(s) high for break in.

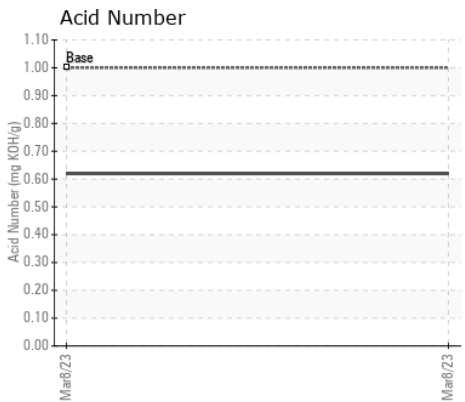
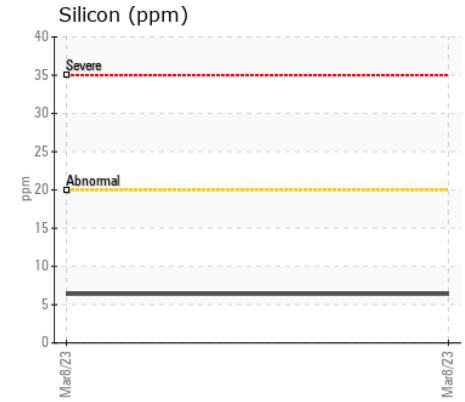
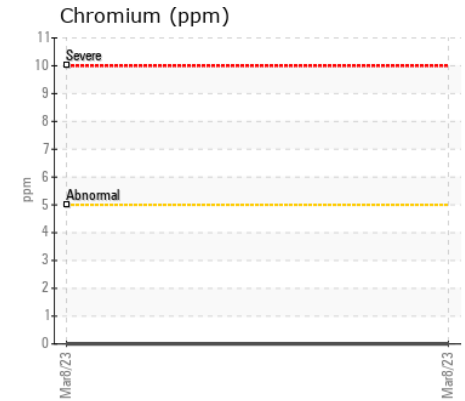
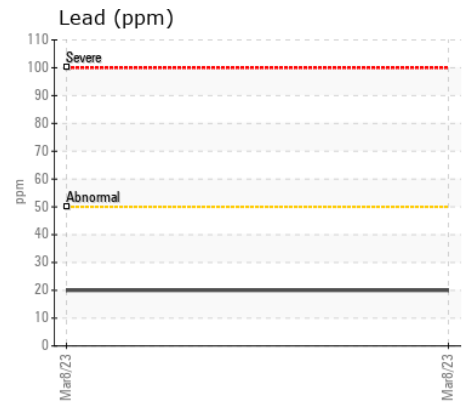
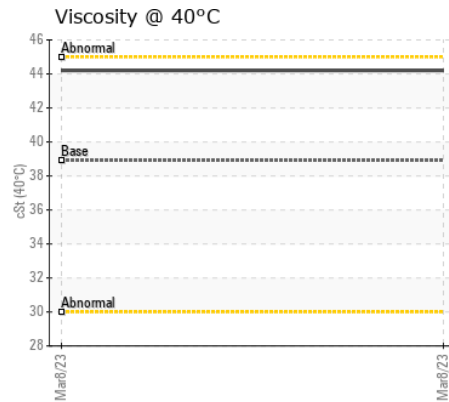
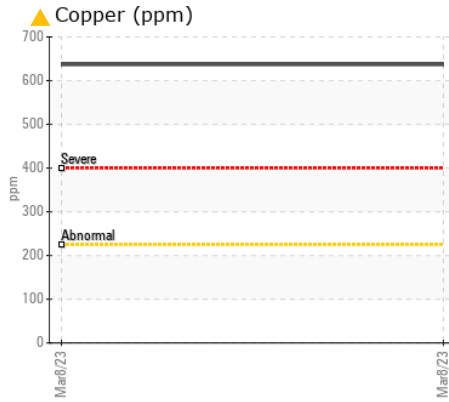
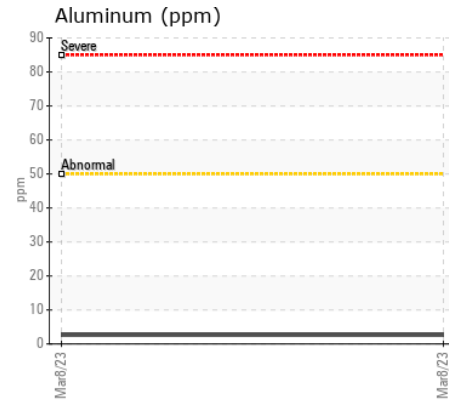
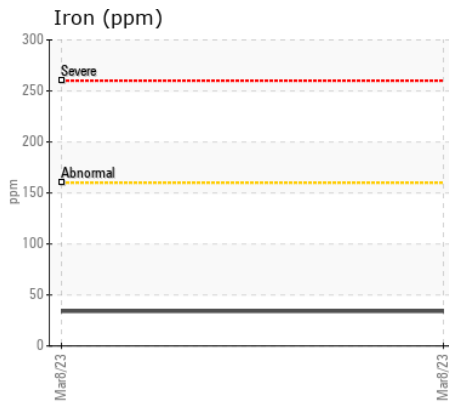
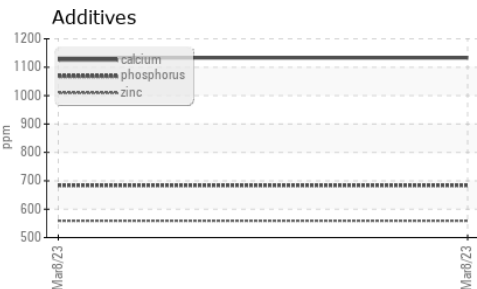
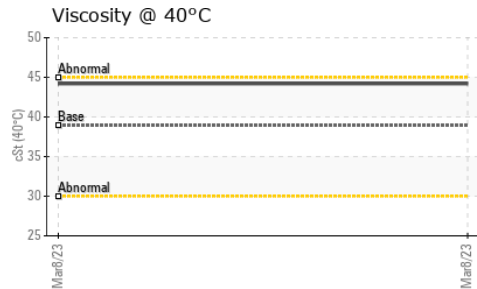
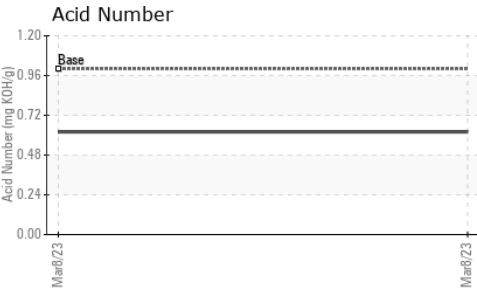
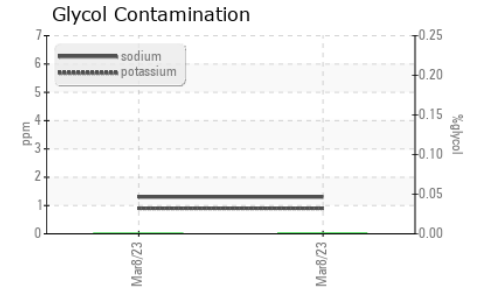
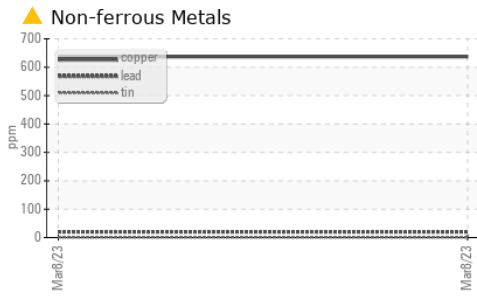
CONTAMINATION

There is no indication of any contamination in the fluid.

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of fluid. 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		WC0777324	---	---
Sample Date		Client Info		08 Mar 2023	---	---
Machine Age	mls	Client Info		15669	---	---
Oil Age	mls	Client Info		500	---	---
Filter Age	mls	Client Info		500	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185(m)	>160	34	---	---
Chromium	ppm	ASTM D5185(m)	>5	0	---	---
Nickel	ppm	ASTM D5185(m)	>5	1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>5	<1	---	---
Aluminum	ppm	ASTM D5185(m)	>50	3	---	---
Lead	ppm	ASTM D5185(m)	>50	20	---	---
Copper	ppm	ASTM D5185(m)	>225	▲ 637	---	---
Tin	ppm	ASTM D5185(m)	>10	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>20	6	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---
Sodium	ppm	ASTM D5185(m)		1	---	---
Boron	ppm	ASTM D5185(m)	150	56	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	2	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)	0	125	---	---
Calcium	ppm	ASTM D5185(m)	40	1133	---	---
Phosphorus	ppm	ASTM D5185(m)	320	684	---	---
Zinc	ppm	ASTM D5185(m)	5	559	---	---
Sulfur	ppm	ASTM D5185(m)	1050	2480	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	0.62	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	44.2	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0777324 **Received** : 24 Mar 2023
Lab Number : 02547372 **Diagnosed** : 27 Mar 2023
Unique Number : 5552382 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: Glycol, TAN Man)

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.

City of Windsor
 2885 Kew Drive
 Windsor, ON
 CA N8T 3B7
 Contact: Susanne Hutnik
 shutnik@city.windsor.on.ca
 T: (519)253-3016
 F: