



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**5017**  
Component  
**Front Differential**  
Fluid  
**TDTO FLUID SAE 30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0084372</b>	PC0082931	PC0070859
Sample Date		Client Info		<b>26 Feb 2024</b>	21 Nov 2023	16 Apr 2023
Machine Age	hrs	Client Info		<b>21795</b>	21335	20458
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	<b>168</b>	123	53
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	2	1
Lead	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>100	<b>10</b>	9	2
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>LIGHT</b>	LIGHT	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

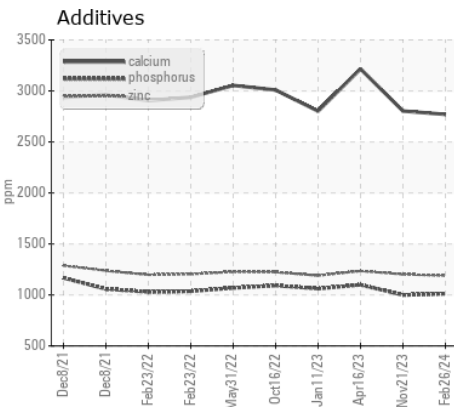
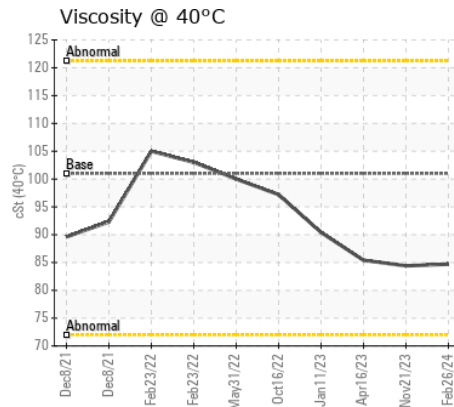
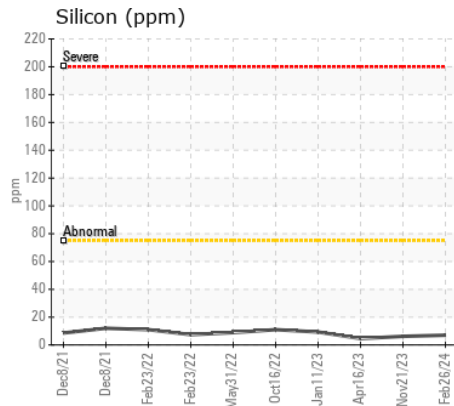
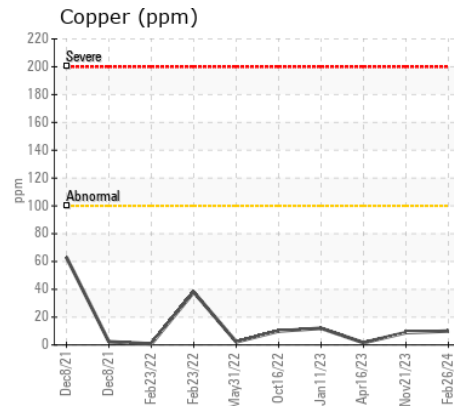
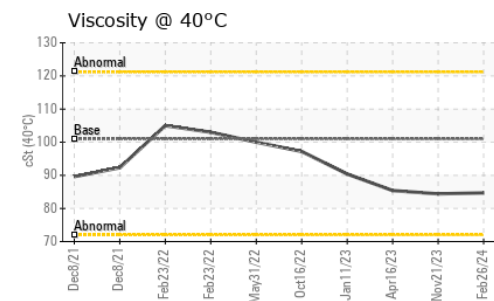
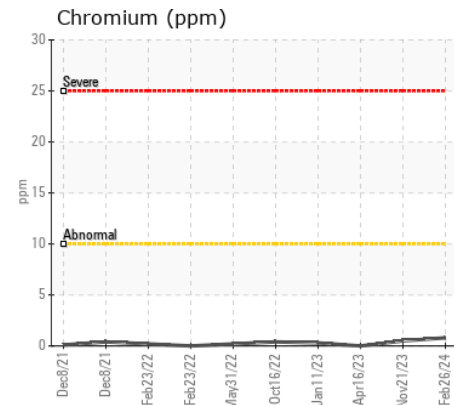
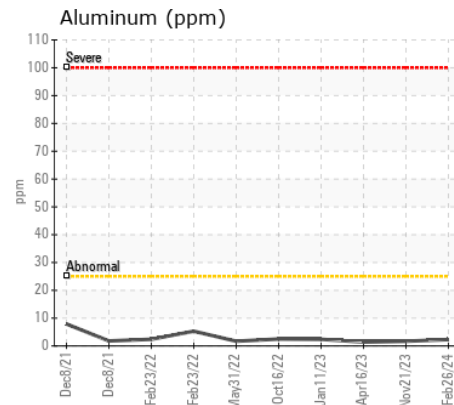
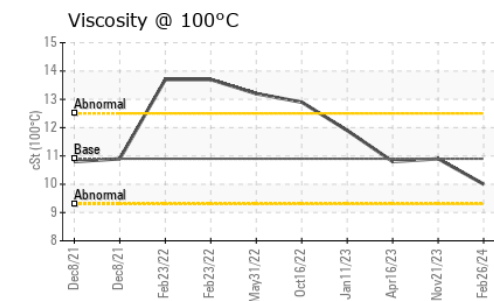
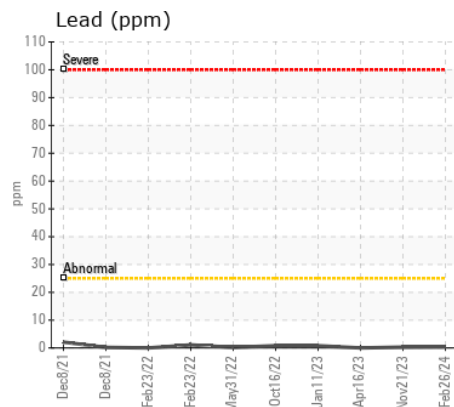
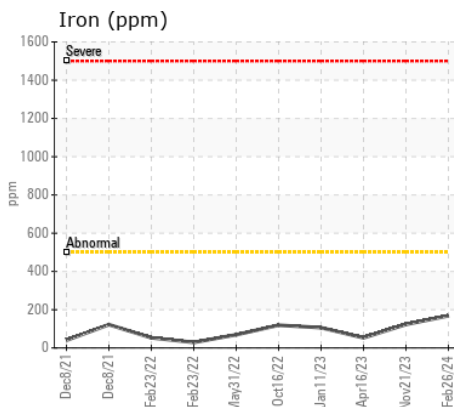
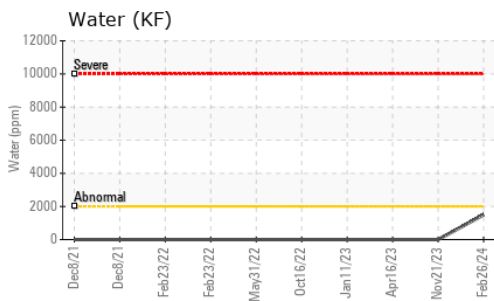
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<b>7</b>	6	5
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	0	<1
Water	%	ASTM D6304*	>.2	<b>0.149</b>	---	---
ppm Water	ppm	ASTM D6304*	>2000	<b>1499</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	<b>.5%</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>9</b>	4	4
Boron	ppm	ASTM D5185(m)	37	<b>5</b>	6	5
Barium	ppm	ASTM D5185(m)	7	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	5	<b>6</b>	2	2
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	40	<b>10</b>	9	9
Calcium	ppm	ASTM D5185(m)	2650	<b>2770</b>	2803	3216
Phosphorus	ppm	ASTM D5185(m)	1050	<b>1012</b>	999	1099
Zinc	ppm	ASTM D5185(m)	1075	<b>1190</b>	1202	1235
Sulfur	ppm	ASTM D5185(m)	5750	<b>4161</b>	3630	4058
Visc @ 40°C	cSt	ASTM D7279(m)	101	<b>84.7</b>	84.4	85.4
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>10.0</b>	10.9	10.8
Viscosity Index (VI)	Scale	ASTM D2270*	90	<b>97</b>	115	111



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0084372  
**Lab Number** : 02618459  
**Unique Number** : 5735569  
**Test Package** : MOB 1 ( Additional Tests: KF, KV100, VI )

**LES ENTREPRISES MICHAUVILLE INC.**  
 270 RUE BRUNET  
 MONT ST-HILAIRE, QC  
 CA J3H 0M6  
 Contact: Martin Trudel  
 mtrudel@michaudville.com

**Received** : 27 Feb 2024  
**Tested** : 28 Feb 2024  
**Diagnosed** : 28 Feb 2024 - Wes Davis

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.

T:  
F: