

Area  
**MICHAUDVILLE**  
Machine Id  
**5031**  
Component  
**Front Differential**  
Fluid  
**{not provided} (--- GAL)**

**RECOMMENDATION**

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

**WEAR**

All component wear rates are normal.

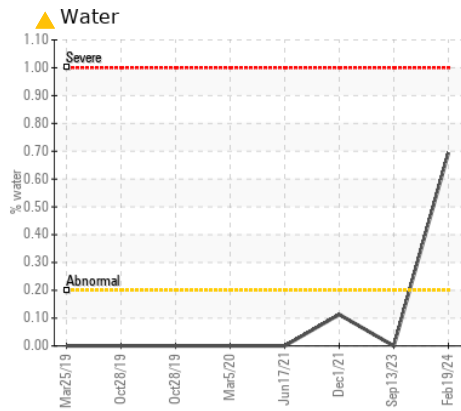
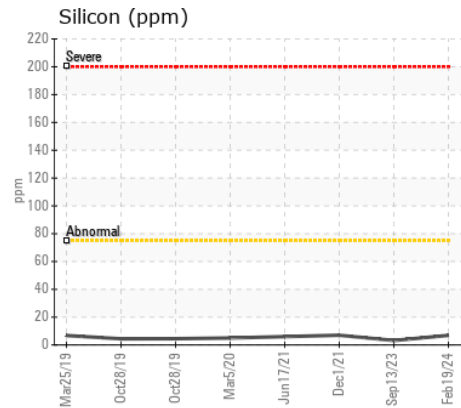
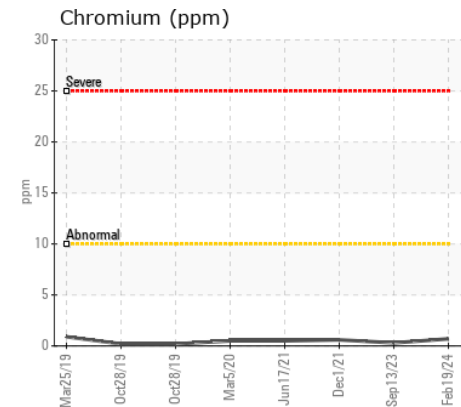
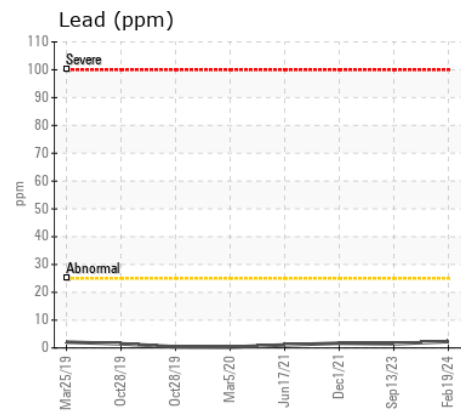
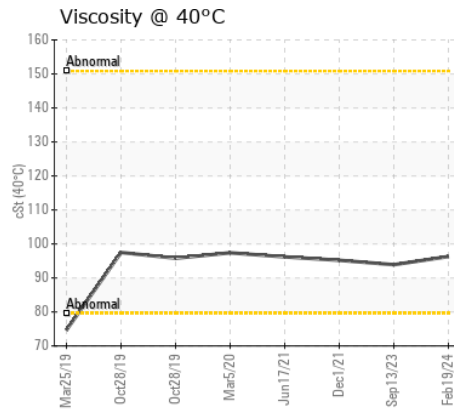
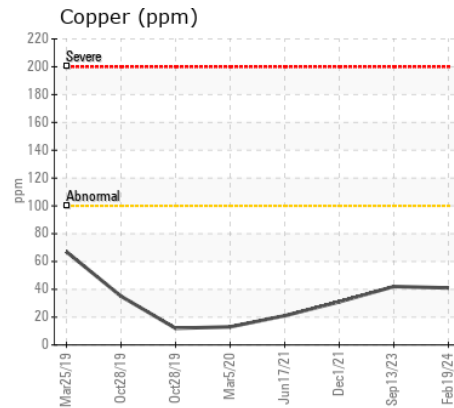
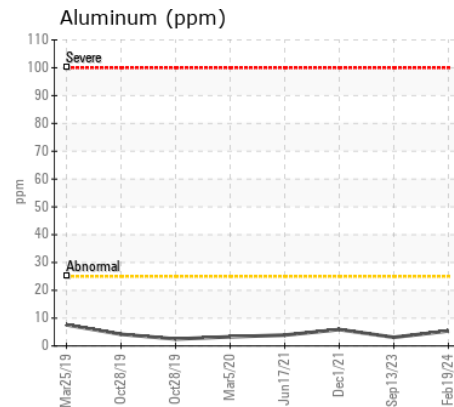
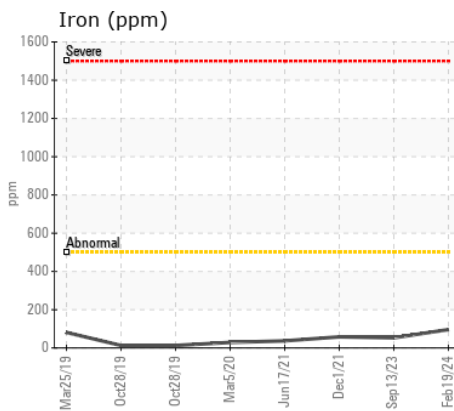
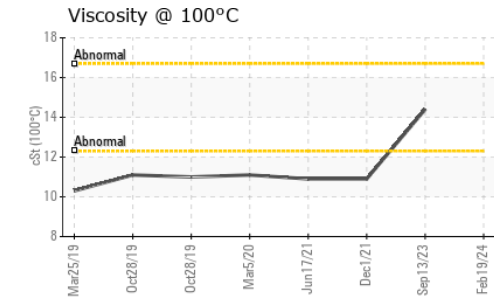
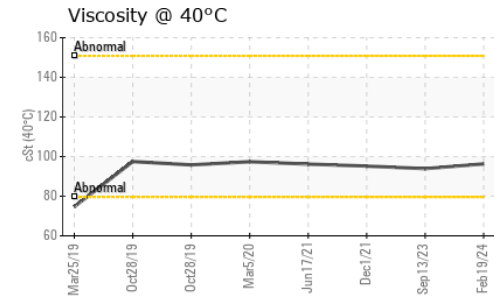
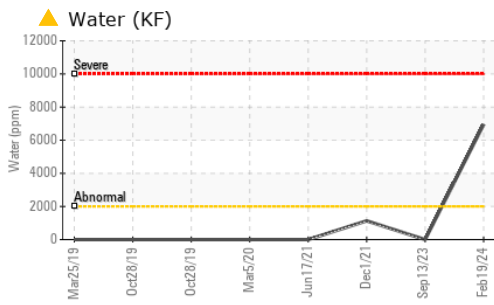
**CONTAMINATION**

There is a moderate concentration of water present in the oil.

**FLUID CONDITION**

The white residue present in the sample is oil additive precipitate. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0083745</b>	PC0078367	PC0053428
Sample Date		Client Info		<b>19 Feb 2024</b>	13 Sep 2023	01 Dec 2021
Machine Age	hrs	Client Info		<b>4415</b>	4005	0
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>ABNORMAL</b>	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>500	<b>96</b>	53	58
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>5</b>	3	6
Lead	ppm	ASTM D5185(m)	>25	<b>2</b>	2	2
Copper	ppm	ASTM D5185(m)	>100	<b>41</b>	42	31
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	▲ MODER
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>75	<b>7</b>	3	7
Potassium	ppm	ASTM D5185(m)	>20	<b>20</b>	5	14
Water	%	ASTM D6304*	>.2	▲ <b>0.694</b>	---	0.113
ppm Water	ppm	ASTM D6304*	>2000	▲ <b>6948</b>	---	1132.4
Silt	scalar	Visual*	NONE	<b>MODER</b>	HEAVY	NONE
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	.1%
Sodium	ppm	ASTM D5185(m)		<b>18</b>	11	15
Boron	ppm	ASTM D5185(m)		<b>4</b>	2	2
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185(m)		<b>10</b>	8	13
Calcium	ppm	ASTM D5185(m)		<b>2153</b>	1768	3092
Phosphorus	ppm	ASTM D5185(m)		<b>1404</b>	1402	1586
Zinc	ppm	ASTM D5185(m)		<b>1238</b>	1216	1281
Sulfur	ppm	ASTM D5185(m)		<b>10340</b>	9337	9401
Visc @ 40°C	cSt	ASTM D7279(m)		<b>96.3</b>	93.9	95.2
Visc @ 100°C	cSt	ASTM D7279(m)		<b>---</b>	14.4	10.9
Viscosity Index (VI)	Scale	ASTM D2270*		<b>---</b>	158	98



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0083745  
**Lab Number** : 02616795  
**Unique Number** : 5733905  
**Test Package** : MOB 1 ( Additional Tests: Bottom, KF, KV100, VI )

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

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.