

Area  
**MICHAUDVILLE**  
Machine Id  
**5519**  
Component  
**Swing Drive**  
Fluid  
**GEAR OIL SAE 80 (--- 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. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80. Please confirm. Please specify the component make and model with your next sample.

**WEAR**

All component wear rates are normal.

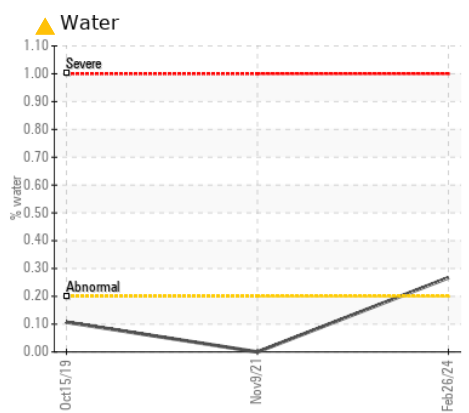
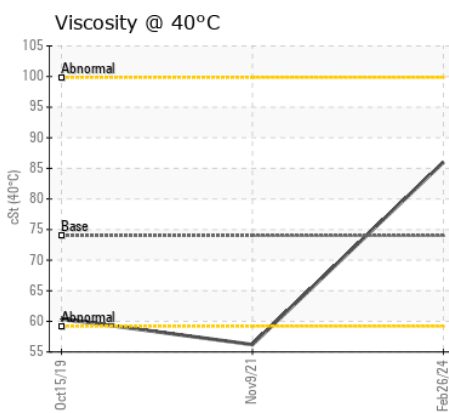
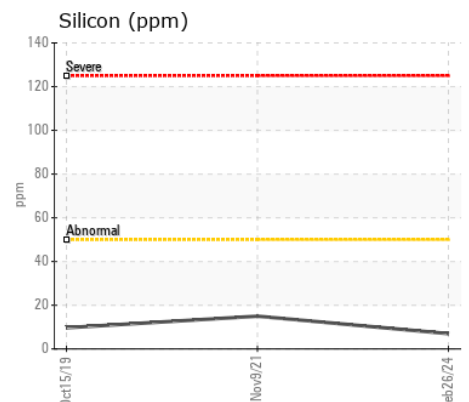
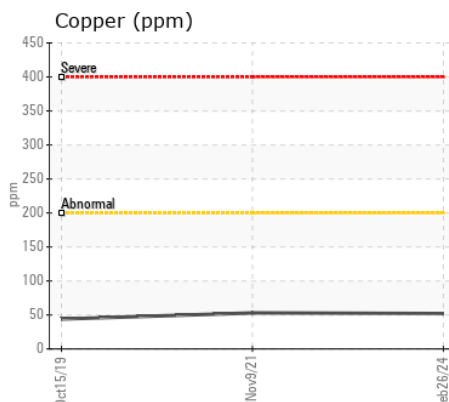
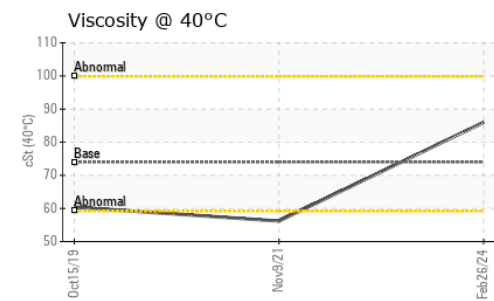
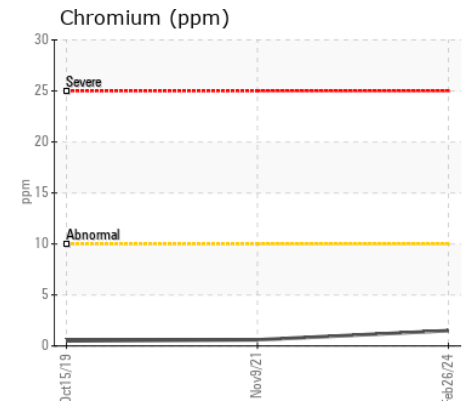
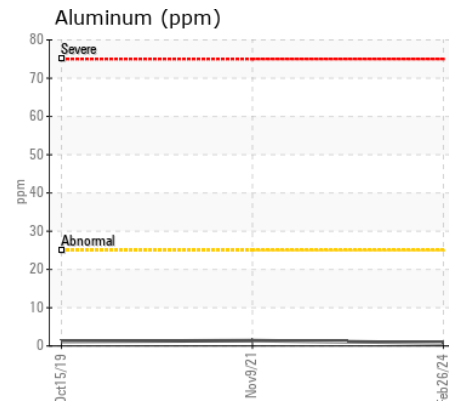
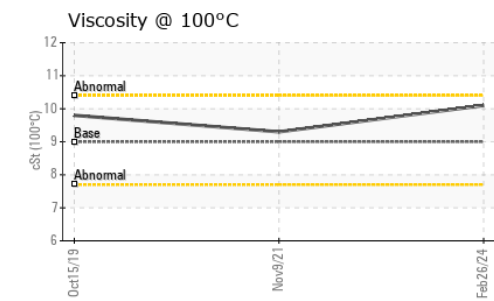
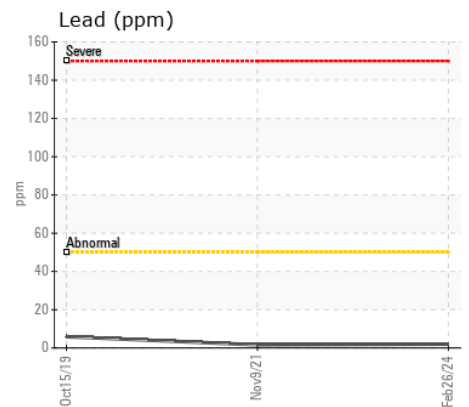
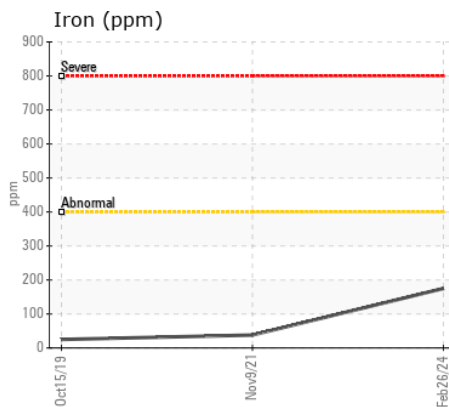
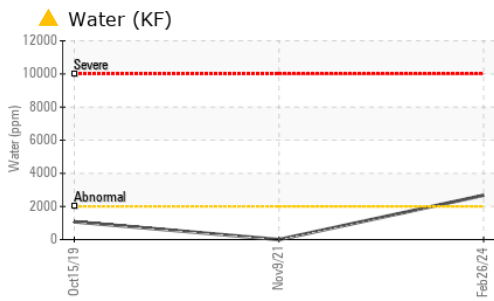
**CONTAMINATION**

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

**FLUID CONDITION**

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>PC0084436</b>	PC0053352	PC0019793
Sample Date		Client Info		<b>26 Feb 2024</b>	09 Nov 2021	15 Oct 2019
Machine Age	hrs	Client Info		<b>9720</b>	8930	7757
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	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>400	<b>175</b>	38	25
Chromium	ppm	ASTM D5185(m)	>10	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185(m)	>50	<b>2</b>	2	6
Copper	ppm	ASTM D5185(m)	>200	<b>52</b>	53	44
Tin	ppm	ASTM D5185(m)	>10	<b>2</b>	2	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>50	<b>7</b>	15	10
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	3
Water	%	ASTM D6304*	>0.2	<b>▲ 0.267</b>	---	0.107
ppm Water	ppm	ASTM D6304*	>2000	<b>▲ 2674</b>	---	1073.9
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>▲ HAZY</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>▲ .2%</b>	NEG	.2%
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	3	3
Boron	ppm	ASTM D5185(m)	400	<b>38</b>	17	17
Barium	ppm	ASTM D5185(m)	200	<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	12	<b>4</b>	36	35
Manganese	ppm	ASTM D5185(m)		<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	12	<b>38</b>	547	494
Calcium	ppm	ASTM D5185(m)	150	<b>157</b>	2067	2020
Phosphorus	ppm	ASTM D5185(m)	1650	<b>1089</b>	1054	990
Zinc	ppm	ASTM D5185(m)	125	<b>235</b>	1205	1148
Sulfur	ppm	ASTM D5185(m)	22500	<b>18386</b>	3382	3576
Visc @ 40°C	cSt	ASTM D7279(m)	74	<b>86.0</b>	56.2	60.4
Visc @ 100°C	cSt	ASTM D7279(m)	9.0	<b>10.1</b>	9.3	9.8
Viscosity Index (VI)	Scale	ASTM D2270*	94	<b>97</b>	147	146



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0084436  
**Lab Number** : 02618458  
**Unique Number** : 5735568  
**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

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: