

Area  
**MICHAUDVILLE**  
Machine Id  
**5106**  
Component  
**Front Differential**  
Fluid  
**TRANSAXLE OIL SAE 75W80 (--- GAL)**

**RECOMMENDATION**

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

**WEAR**

All component wear rates are normal.

**CONTAMINATION**

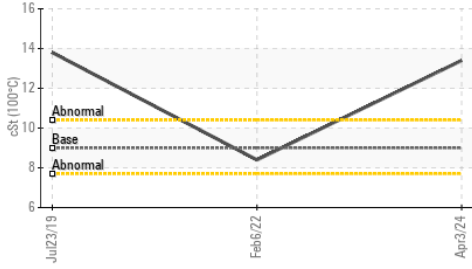
There is no indication of any contamination in the oil.

**FLUID CONDITION**

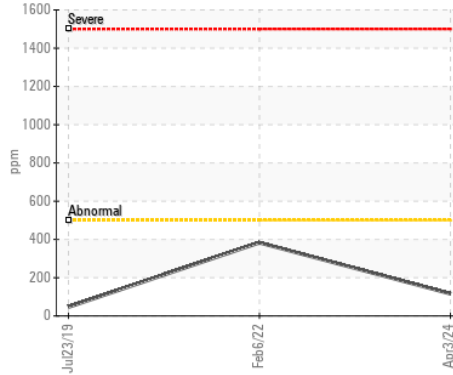
Viscosity of sample indicates oil is within SAE 80W90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

| Test                 | UOM    | Method        | Limit/Abn | Current            | History1    | History2    |
|----------------------|--------|---------------|-----------|--------------------|-------------|-------------|
| Sample Number        |        | Client Info   |           | <b>PC0088533</b>   | PC0053881   | PC0017527   |
| Sample Date          |        | Client Info   |           | <b>03 Apr 2024</b> | 06 Feb 2022 | 23 Jul 2019 |
| Machine Age          | hrs    | Client Info   |           | <b>1366</b>        | 426         | 2359        |
| 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) | >500      | <b>116</b>         | 383         | 46          |
| Chromium             | ppm    | ASTM D5185(m) | >10       | <b>1</b>           | 7           | <1          |
| Nickel               | ppm    | ASTM D5185(m) | >10       | <b>0</b>           | <1          | 0           |
| Titanium             | ppm    | ASTM D5185(m) |           | <b>0</b>           | <1          | 0           |
| Silver               | ppm    | ASTM D5185(m) |           | <b>0</b>           | 0           | 0           |
| Aluminum             | ppm    | ASTM D5185(m) | >25       | <b>&lt;1</b>       | 2           | <1          |
| Lead                 | ppm    | ASTM D5185(m) | >25       | <b>0</b>           | 0           | <1          |
| Copper               | ppm    | ASTM D5185(m) | >100      | <b>&lt;1</b>       | 2           | <1          |
| Tin                  | ppm    | ASTM D5185(m) | >10       | <b>0</b>           | 0           | 0           |
| Vanadium             | ppm    | ASTM D5185(m) |           | <b>0</b>           | 0           | 0           |
| White Metal          | scalar | Visual*       | NONE      | <b>VLITE</b>       | VLITE       | VLITE       |
| Yellow Metal         | scalar | Visual*       | NONE      | <b>NONE</b>        | NONE        | NONE        |
| Silicon              | ppm    | ASTM D5185(m) | >75       | <b>5</b>           | 16          | 10          |
| Potassium            | ppm    | ASTM D5185(m) | >20       | <b>1</b>           | 5           | <1          |
| Water                |        | WC Method     | >.2       | <b>NEG</b>         | NEG         | NEG         |
| Silt                 | scalar | Visual*       | NONE      | <b>VLITE</b>       | VLITE       | NONE        |
| Debris               | scalar | Visual*       | NONE      | <b>VLITE</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>NEG</b>         | NEG         | NEG         |
| Sodium               | ppm    | ASTM D5185(m) |           | <b>2</b>           | 18          | 2           |
| Boron                | ppm    | ASTM D5185(m) | 160       | <b>195</b>         | 106         | 228         |
| Barium               | ppm    | ASTM D5185(m) | 10        | <b>&lt;1</b>       | 1           | <1          |
| Molybdenum           | ppm    | ASTM D5185(m) | 25        | <b>0</b>           | <1          | <1          |
| Manganese            | ppm    | ASTM D5185(m) |           | <b>4</b>           | 27          | 2           |
| Magnesium            | ppm    | ASTM D5185(m) | 12        | <b>3</b>           | 12          | 5           |
| Calcium              | ppm    | ASTM D5185(m) | 3750      | <b>388</b>         | 3546        | 309         |
| Phosphorus           | ppm    | ASTM D5185(m) | 1200      | <b>979</b>         | 1181        | 1004        |
| Zinc                 | ppm    | ASTM D5185(m) | 1500      | <b>176</b>         | 1467        | 139         |
| Sulfur               | ppm    | ASTM D5185(m) | 6000      | <b>15516</b>       | 3278        | 18292       |
| Visc @ 40°C          | cSt    | ASTM D7279(m) | 48        | <b>122</b>         | 53.6        | 124         |
| Visc @ 100°C         | cSt    | ASTM D7279(m) | 9.0       | <b>13.4</b>        | 8.4         | 13.8        |
| Viscosity Index (VI) | Scale  | ASTM D2270*   | 171       | <b>105</b>         | 130         | 108         |

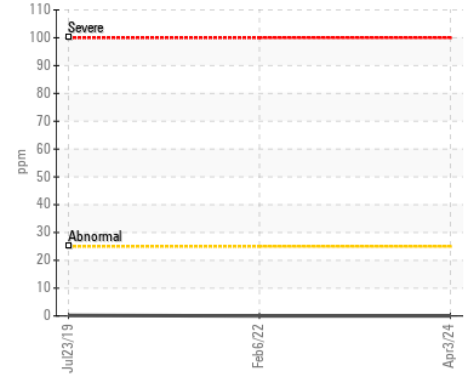
▲ Viscosity @ 100°C



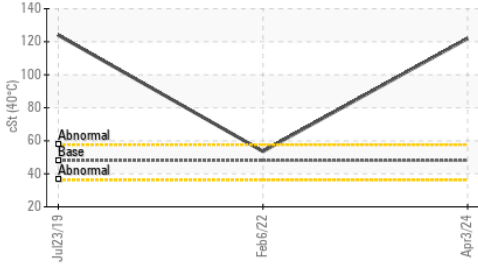
Iron (ppm)



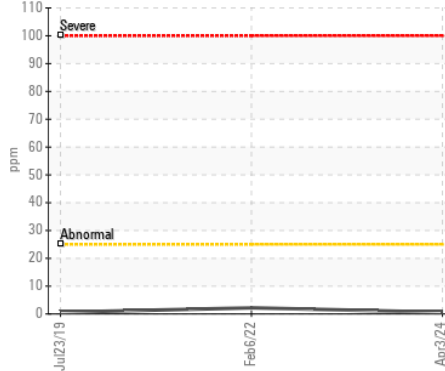
Lead (ppm)



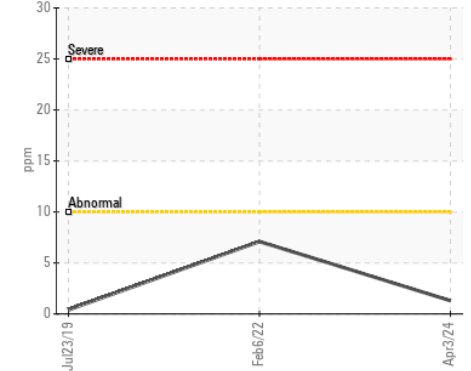
▲ Viscosity @ 40°C



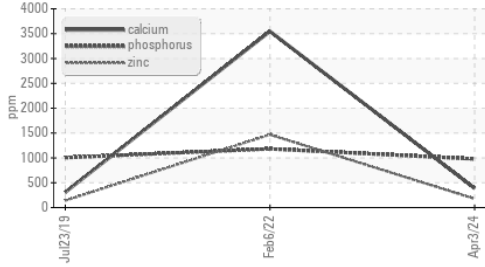
Aluminum (ppm)



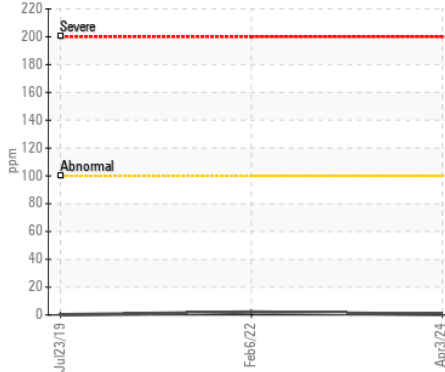
Chromium (ppm)



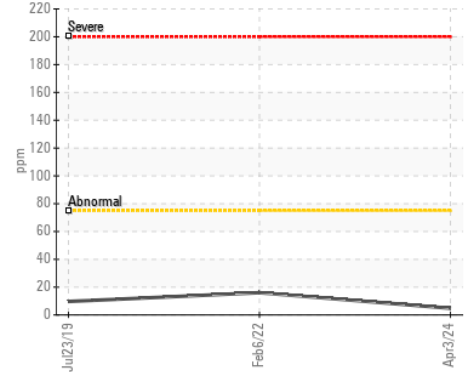
● Additives



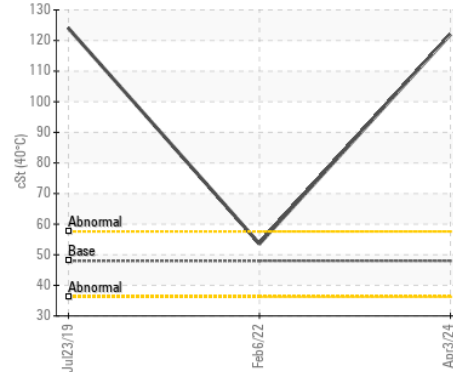
Copper (ppm)



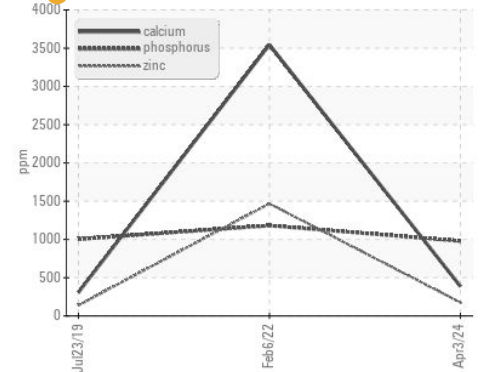
Silicon (ppm)



▲ Viscosity @ 40°C



● Additives



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0088533  
**Lab Number** : 02626693  
**Unique Number** : 5759825  
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

**LES ENTREPRISES MICHAUDVILLE INC.**  
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 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: