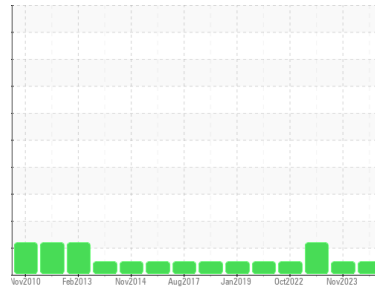




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**CFR#41743 [41743]**  
 Machine Id  
**375**  
 Component  
**Left Final Drive**  
 Fluid  
**ALLISON TES 295 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: 41743 516 km / 114 hr )

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1    | history2    |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info |             | <b>WC0876217</b>   | WC877643    | WC877639    |
| Sample Date   | Client Info |             | <b>19 Jun 2024</b> | 06 Nov 2023 | 15 Aug 2023 |
| Machine Age   | kms         | Client Info | <b>11365</b>       | 0           | 0           |
| Oil Age       | kms         | Client Info | <b>0</b>           | 0           | 0           |
| Oil Changed   | Client Info |             | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | ABNORMAL    |

## CONTAMINATION

|       | method    | limit/base | current    | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2       | <b>NEG</b> | NEG      | NEG      |

## WEAR METALS

|           | method | limit/base    | current | history1     | history2 |    |
|-----------|--------|---------------|---------|--------------|----------|----|
| Iron      | ppm    | ASTM D5185(m) | >500    | <b>35</b>    | 22       | 59 |
| Chromium  | ppm    | ASTM D5185(m) | >10     | <b>&lt;1</b> | 0        | <1 |
| Nickel    | ppm    | ASTM D5185(m) | >10     | <b>1</b>     | <1       | 4  |
| Titanium  | ppm    | ASTM D5185(m) |         | <b>0</b>     | 0        | 0  |
| Silver    | ppm    | ASTM D5185(m) |         | <b>0</b>     | <1       | 0  |
| Aluminum  | ppm    | ASTM D5185(m) | >25     | <b>&lt;1</b> | <1       | 1  |
| Lead      | ppm    | ASTM D5185(m) | >25     | <b>0</b>     | <1       | <1 |
| Copper    | ppm    | ASTM D5185(m) | >50     | <b>&lt;1</b> | <1       | <1 |
| Tin       | ppm    | ASTM D5185(m) | >10     | <b>0</b>     | 0        | 0  |
| Antimony  | ppm    | ASTM D5185(m) | >5      | <b>0</b>     | 0        | 0  |
| Vanadium  | ppm    | ASTM D5185(m) |         | <b>0</b>     | 0        | 0  |
| Beryllium | ppm    | ASTM D5185(m) |         | <b>0</b>     | 0        | 0  |
| Cadmium   | ppm    | ASTM D5185(m) |         | <b>0</b>     | 0        | <1 |

## ADDITIVES

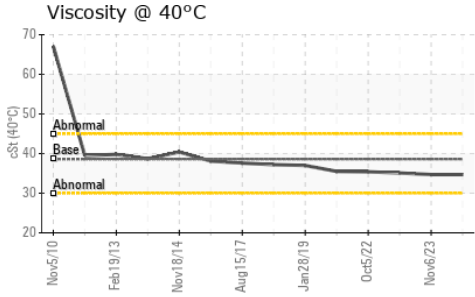
|            | method | limit/base    | current | history1     | history2 |      |
|------------|--------|---------------|---------|--------------|----------|------|
| Boron      | ppm    | ASTM D5185(m) | 147     | <b>187</b>   | 191      | 181  |
| Barium     | ppm    | ASTM D5185(m) | 0.0     | <b>35</b>    | 35       | <1   |
| Molybdenum | ppm    | ASTM D5185(m) | 0.1     | <b>0</b>     | 0        | 2    |
| Manganese  | ppm    | ASTM D5185(m) | 0.0     | <b>&lt;1</b> | 0        | <1   |
| Magnesium  | ppm    | ASTM D5185(m) | 1.0     | <b>&lt;1</b> | <1       | 2    |
| Calcium    | ppm    | ASTM D5185(m) | 37      | <b>109</b>   | 110      | 164  |
| Phosphorus | ppm    | ASTM D5185(m) | 318     | <b>448</b>   | 464      | 501  |
| Zinc       | ppm    | ASTM D5185(m) | 6.1     | <b>6</b>     | 4        | 24   |
| Sulfur     | ppm    | ASTM D5185(m) | 1058    | <b>1316</b>  | 1466     | 1730 |
| Lithium    | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | <1       | <1   |

## CONTAMINANTS

|           | method | limit/base    | current | history1  | history2 |    |
|-----------|--------|---------------|---------|-----------|----------|----|
| Silicon   | ppm    | ASTM D5185(m) | >75     | <b>3</b>  | 4        | 5  |
| Sodium    | ppm    | ASTM D5185(m) |         | <b>12</b> | 12       | 23 |
| Potassium | ppm    | ASTM D5185(m) | >20     | <b>2</b>  | 1        | 14 |



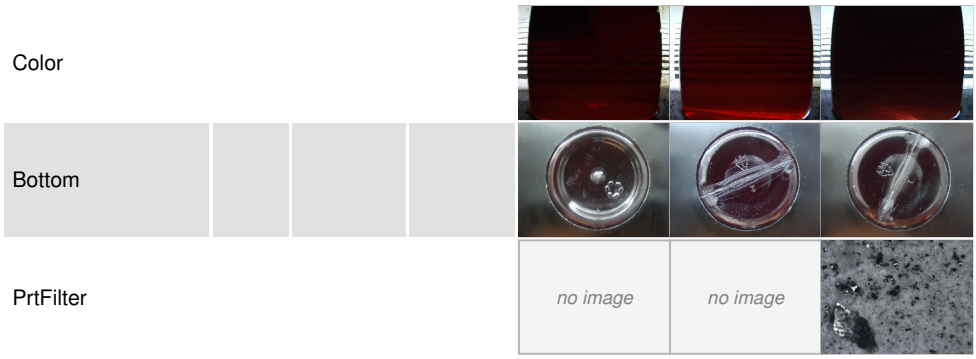
# OIL ANALYSIS REPORT



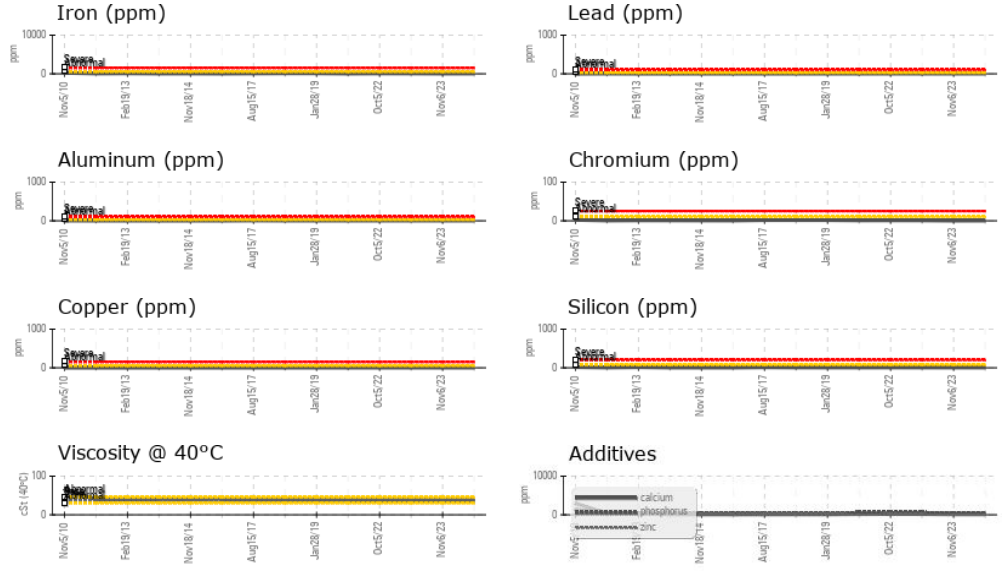
| VISUAL           | method | limit/base | current | history1     | history2      |
|------------------|--------|------------|---------|--------------|---------------|
| White Metal      | scalar | Visual*    | NONE    | <b>NONE</b>  | VLITE ▲ LIGHT |
| Yellow Metal     | scalar | Visual*    | NONE    | <b>NONE</b>  | NONE          |
| Precipitate      | scalar | Visual*    | NONE    | <b>NONE</b>  | NONE          |
| Silt             | scalar | Visual*    | NONE    | <b>VLITE</b> | NONE          |
| Debris           | scalar | Visual*    | NONE    | <b>NONE</b>  | NONE          |
| Sand/Dirt        | scalar | Visual*    | NONE    | <b>NONE</b>  | NONE          |
| Appearance       | scalar | Visual*    | NORML   | <b>NORML</b> | NORML         |
| Odor             | scalar | Visual*    | NORML   | <b>NORML</b> | NORML         |
| Emulsified Water | scalar | Visual*    | >0.2    | <b>NEG</b>   | NEG           |
| Free Water       | scalar | Visual*    |         | <b>NEG</b>   | NEG           |

| FLUID PROPERTIES | method | limit/base    | current | history1    | history2 |
|------------------|--------|---------------|---------|-------------|----------|
| Visc @ 40°C      | cSt    | ASTM D7279(m) | 38.6    | <b>34.7</b> | 34.7     |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0876217  
**Lab Number** : 02643256  
**Unique Number** : 5800795  
**Test Package** : MOB 1  
**Received** : 20 Jun 2024  
**Tested** : 20 Jun 2024  
**Diagnosed** : 20 Jun 2024 - Kevin Marson

**DEPARTMENT OF NATIONAL DEFENSE**  
 MGEN.GEORGE R.PEARKE'S BUILDING  
 OTTAWA, ON  
 CA K1A 0K2

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.

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