



OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id

224

Component

Front Axle

Fluid

PETRO CANADA DURATRAN SYNTHETIC (--- LTR)

DIAGNOSIS

▲ 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 30 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.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info | | WC0920869 | --- | --- |
| Sample Date | Client Info | | 26 Mar 2024 | --- | --- |
| Machine Age | hrs | Client Info | 0 | --- | --- |
| Oil Age | hrs | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | N/A | --- | --- |
| Sample Status | | | ABNORMAL | --- | --- |

CONTAMINATION

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

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Iron | ppm | ASTM D5185(m) | >500 | 25 | --- |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | --- |
| Nickel | ppm | ASTM D5185(m) | >10 | 0 | --- |
| Titanium | ppm | ASTM D5185(m) | | 0 | --- |
| Silver | ppm | ASTM D5185(m) | | 0 | --- |
| Aluminum | ppm | ASTM D5185(m) | >25 | <1 | --- |
| Lead | ppm | ASTM D5185(m) | >25 | 0 | --- |
| Copper | ppm | ASTM D5185(m) | >50 | 2 | --- |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | --- |
| Antimony | ppm | ASTM D5185(m) | >5 | 0 | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | --- |
| Beryllium | ppm | ASTM D5185(m) | | 0 | --- |
| Cadmium | ppm | ASTM D5185(m) | | 0 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|---------------|---------|--------------|----------|
| Boron | ppm | ASTM D5185(m) | 112 | 41 | --- |
| Barium | ppm | ASTM D5185(m) | 0 | <1 | --- |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | --- |
| Manganese | ppm | ASTM D5185(m) | 1 | 3 | --- |
| Magnesium | ppm | ASTM D5185(m) | 13 | 3 | --- |
| Calcium | ppm | ASTM D5185(m) | 3777 | 637 | --- |
| Phosphorus | ppm | ASTM D5185(m) | 1240 | 1231 | --- |
| Zinc | ppm | ASTM D5185(m) | 1513 | 324 | --- |
| Sulfur | ppm | ASTM D5185(m) | 2716 | 15714 | --- |
| Lithium | ppm | ASTM D5185(m) | | 3 | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Silicon | ppm | ASTM D5185(m) | >75 | 7 | --- |
| Sodium | ppm | ASTM D5185(m) | | 2 | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | --- |

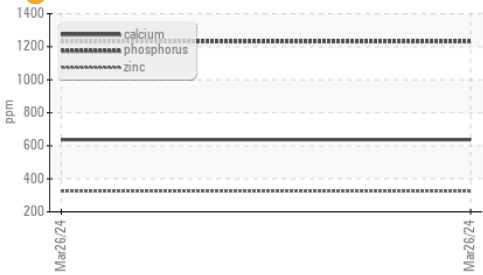


OIL ANALYSIS REPORT

▲ Viscosity @ 40°C



● Additives



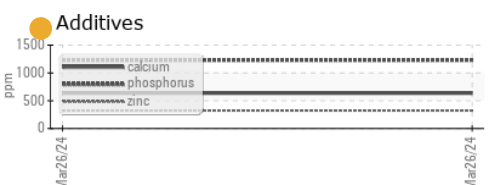
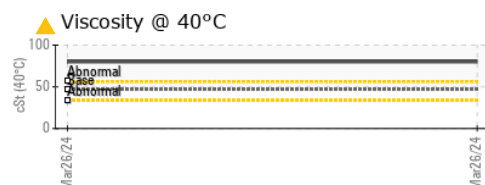
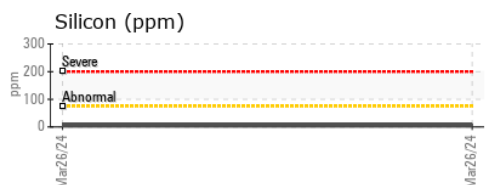
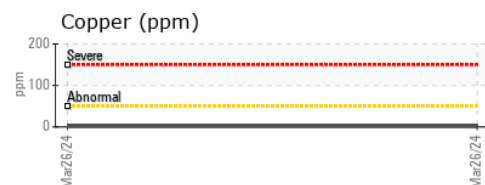
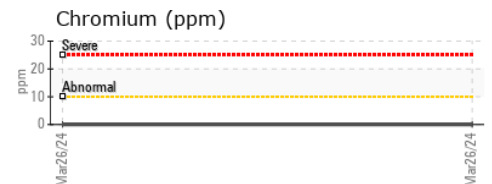
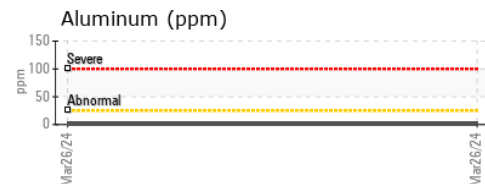
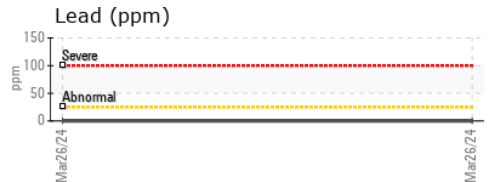
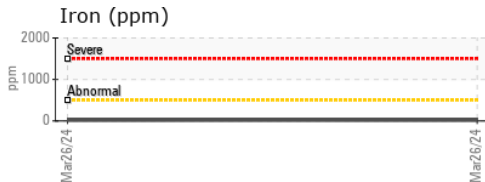
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- |
| Precipitate | scalar | Visual* | NONE | NONE | ---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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 46.79 ▲ 80.2 | --- | --- |

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

| | | | | | |
|--------|--|--|--|----------|----------|
| Color | | | | no image | no image |
| Bottom | | | | no image | no image |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0920869 **Received** : 16 Apr 2024
Lab Number : 02629315 **Tested** : 16 Apr 2024
Unique Number : 5762447 **Diagnosed** : 17 Apr 2024 - Kevin Marson
Test Package : MOBCE (Additional Tests: Visual)

RONI/IRON SHORE EXCAVATING LTD.
 100 MACINTOSH BLVD
 VAUGHAN, ON
 CA L4K 4P3
 Contact: Service Team
 service.team@roni.ca

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.