



OIL ANALYSIS REPORT

| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
SPARTAN/ROSENBAUER 4027
 Component
Rear Differential
 Fluid
PETRO CANADA TRAXON 80W90 (20 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0895853 | WC0623545 | PC0033458 |
| Sample Date | | Client Info | | 02 Apr 2024 | 01 Jan 2022 | 04 Jan 2021 |
| Machine Age | kms | Client Info | | 48084 | 0 | 95793 |
| Oil Age | kms | Client Info | | 23000 | 16193 | 16193 |
| Filter Age | kms | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Not Changd | N/A | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185(m) | >500 | 100 | 33 | 28 |
| Chromium | ppm | ASTM D5185(m) | >10 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >10 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >25 | 1 | <1 | <1 |
| Lead | ppm | ASTM D5185(m) | >25 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) | >100 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |

CONTAMINATION

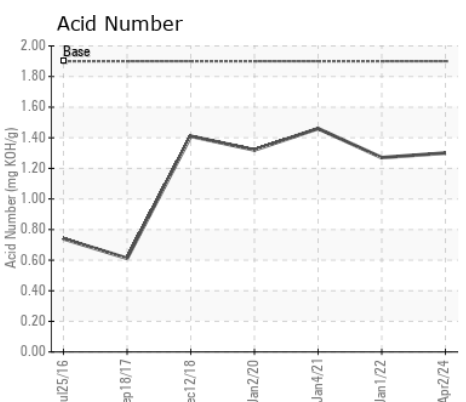
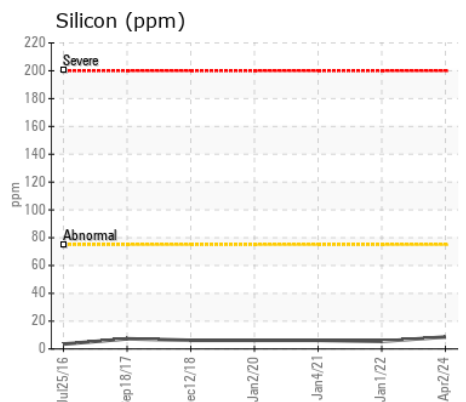
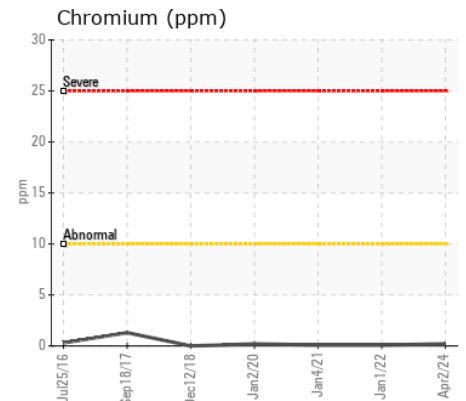
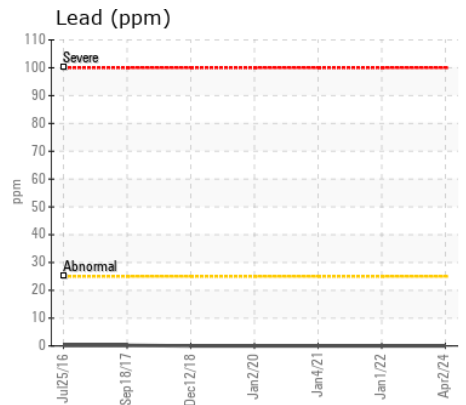
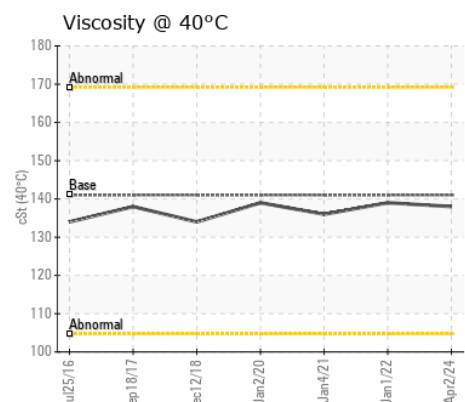
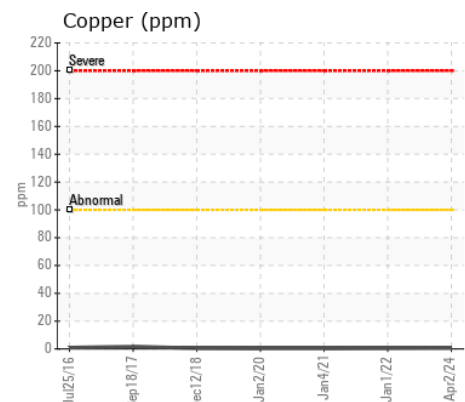
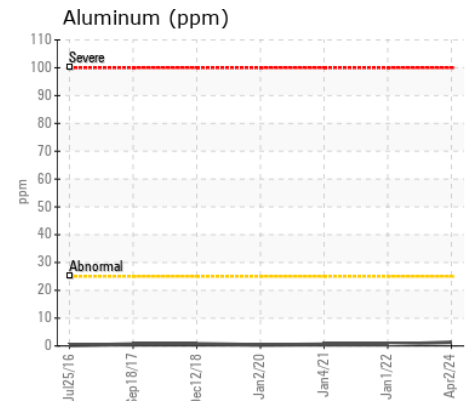
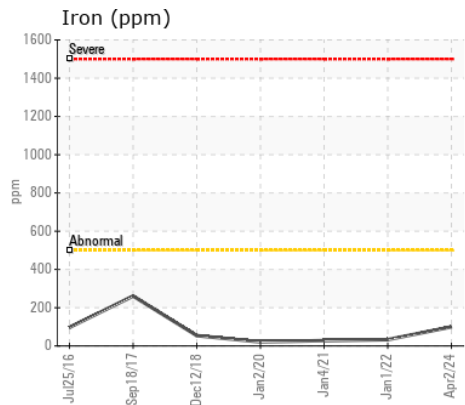
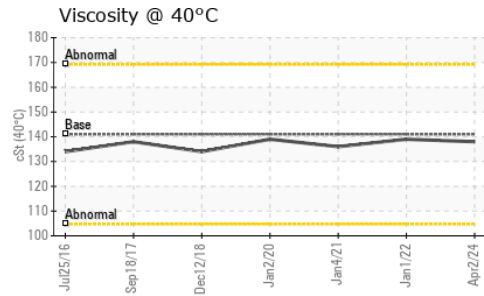
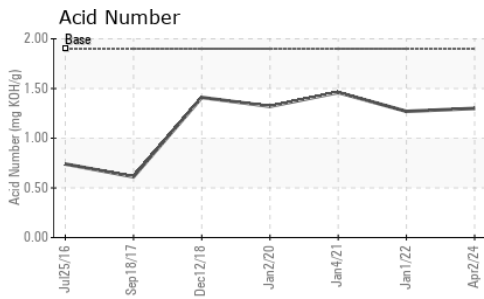
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|---------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185(m) | >75 | 9 | 6 | 6 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 0 | <1 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | VLITE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >.2 | NEG | NEG | NEG |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|---------------|-------|--------------|-------|-------|
| Sodium | ppm | ASTM D5185(m) | | 5 | 2 | 2 |
| Boron | ppm | ASTM D5185(m) | 243 | 189 | 228 | 236 |
| Barium | ppm | ASTM D5185(m) | 1 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185(m) | | 2 | 1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 2 | 3 | 1 | 6 |
| Calcium | ppm | ASTM D5185(m) | 6 | 11 | 6 | 13 |
| Phosphorus | ppm | ASTM D5185(m) | 987 | 941 | 1044 | 927 |
| Zinc | ppm | ASTM D5185(m) | 1 | 21 | 7 | 12 |
| Sulfur | ppm | ASTM D5185(m) | 21530 | 24866 | 25127 | 25268 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | 1.9 | 1.30 | 1.27 | 1.46 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 141.0 | 138 | 139 | 136 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0895853 **Received** : 12 Apr 2024
Lab Number : 02628543 **Tested** : 12 Apr 2024
Unique Number : 5761675 **Diagnosed** : 12 Apr 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: TAN Man)

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.

City of Windsor
 2885 Kew Drive
 Windsor, ON
 CA N8T 3B7
 Contact: Brent Paisley
 bpaisley@citywindsor.ca
 T: (519)945-7395
 F: (519)948-9095