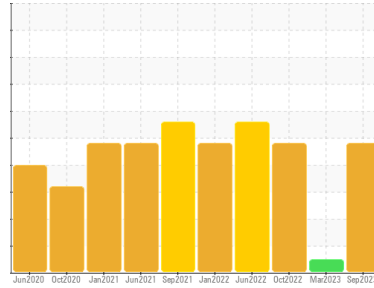


PROBLEM SUMMARY

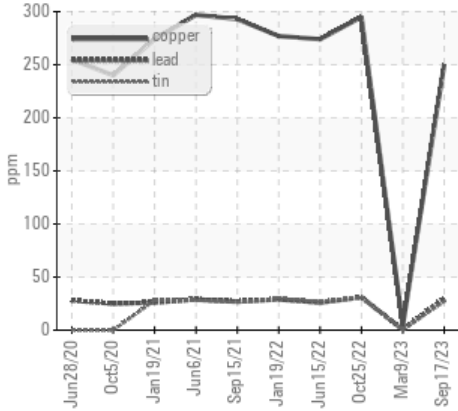
Sample Rating Trend



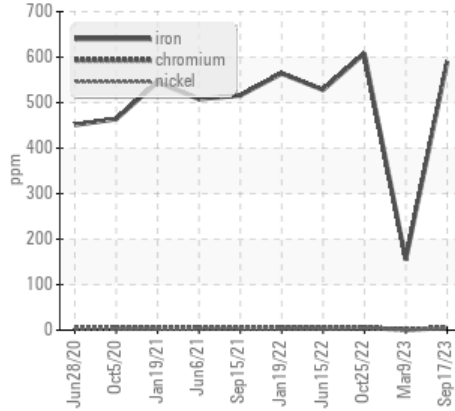
Machine Id
26331
 Component
Front Differential
 Fluid
PETRO CANADA TRAXON E SYNTHETIC 75W-90 (15 QTS)

COMPONENT CONDITION SUMMARY

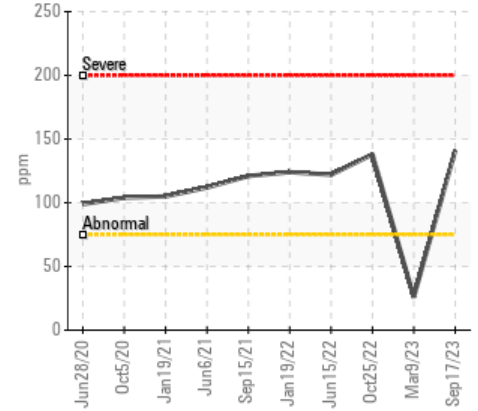
▲ Non-ferrous Metals



▲ Ferrous Alloys



▲ Silicon (ppm)



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | | | ABNORMAL | NORMAL | ABNORMAL |
|---------------|-----|------------------|----------|--------|----------|
| Iron | ppm | ASTM D5185m >500 | ▲ 590 | 155 | ▲ 608 |
| Lead | ppm | ASTM D5185m >25 | ▲ 30 | <1 | ▲ 31 |
| Copper | ppm | ASTM D5185m >100 | ▲ 250 | 4 | ▲ 295 |
| Tin | ppm | ASTM D5185m >10 | ▲ 27 | <1 | ▲ 31 |
| Silicon | ppm | ASTM D5185m >75 | ▲ 141 | 26 | ▲ 138 |

Customer Id: PERGEODE
 Sample No.: PCA0106395
 Lab Number: 06031943
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|-------------------|--------|------|---------|---|
| Check Dirt Access | --- | --- | ? | We advise that you check all areas where dirt can enter the system. |

HISTORICAL DIAGNOSIS

09 Mar 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



25 Oct 2022 Diag: Sean Felton

DIRT



No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or bushing wear is indicated. Gear wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.

view report



15 Jun 2022 Diag: Don Baldrige

DIRT



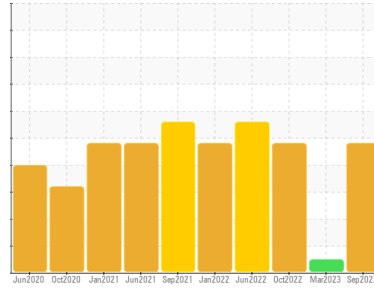
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Gear wear is indicated. Bearing and/or bushing wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
26331
 Component
Front Differential
 Fluid
PETRO CANADA TRAXON E SYNTHETIC 75W-90 (15 QTS)

DIAGNOSIS

Recommendation
 We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Wear
 Gear wear is indicated. Bearing and/or bushing wear is indicated.

Contamination
 Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

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 | PCA0106395 | PCA0094429 | PCA0083028 | |
| Sample Date | Client Info | 17 Sep 2023 | 09 Mar 2023 | 25 Oct 2022 | |
| Machine Age | mls | Client Info | 553122 | 533554 | 517979 |
| Oil Age | mls | Client Info | 553122 | 20575 | 517979 |
| Oil Changed | Client Info | Not Chngd | Changed | Not Chngd | |
| Sample Status | | ABNORMAL | NORMAL | ABNORMAL | |

CONTAMINATION

| method | limit/base | current | history1 | history2 | |
|--------|------------|---------------|------------|----------|-----|
| Water | WC Method | >.2 | NEG | NEG | NEG |

WEAR METALS

| method | limit/base | current | history1 | history2 | | |
|----------|------------|-------------|----------|--------------|-----|--------------|
| Iron | ppm | ASTM D5185m | >500 | ▲ 590 | 155 | ▲ 608 |
| Chromium | ppm | ASTM D5185m | >10 | 5 | 1 | 5 |
| Nickel | ppm | ASTM D5185m | >10 | 3 | <1 | 4 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 6 | 4 | 8 |
| Lead | ppm | ASTM D5185m | >25 | ▲ 30 | <1 | ▲ 31 |
| Copper | ppm | ASTM D5185m | >100 | ▲ 250 | 4 | ▲ 295 |
| Tin | ppm | ASTM D5185m | >10 | ▲ 27 | <1 | ▲ 31 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 | | |
|------------|------------|-------------|----------|--------------|-------|-------|
| Boron | ppm | ASTM D5185m | 229 | 105 | 263 | 121 |
| Barium | ppm | ASTM D5185m | <1 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | <1 | 1 |
| Manganese | ppm | ASTM D5185m | | 15 | 6 | 15 |
| Magnesium | ppm | ASTM D5185m | <1 | 0 | 1 | 4 |
| Calcium | ppm | ASTM D5185m | | 0 | 9 | 13 |
| Phosphorus | ppm | ASTM D5185m | 1355 | 1390 | 1337 | 1405 |
| Zinc | ppm | ASTM D5185m | | 18 | 18 | 31 |
| Sulfur | ppm | ASTM D5185m | 22698 | 23283 | 24739 | 25056 |

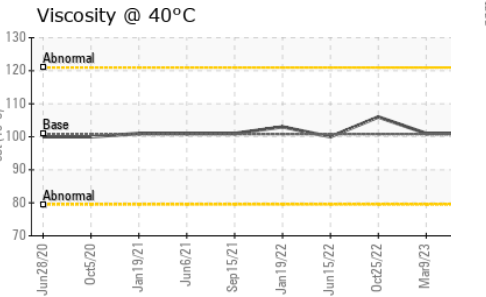
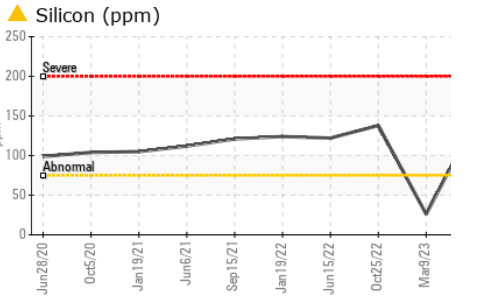
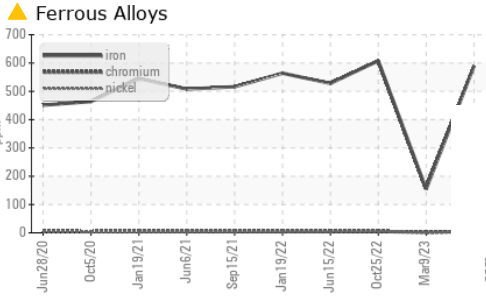
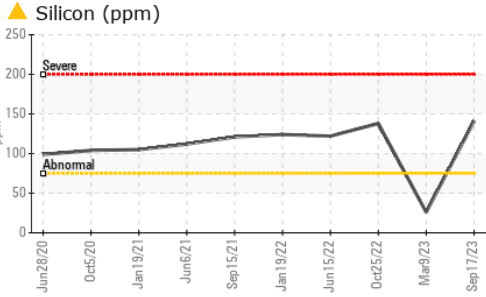
CONTAMINANTS

| method | limit/base | current | history1 | history2 | | |
|-----------|------------|-------------|----------|--------------|----|--------------|
| Silicon | ppm | ASTM D5185m | >75 | ▲ 141 | 26 | ▲ 138 |
| Sodium | ppm | ASTM D5185m | | 10 | 2 | 11 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 5 | 2 |

VISUAL

| method | limit/base | current | history1 | history2 | | |
|------------------|------------|---------|----------|--------------|-------|-------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | 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 |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |

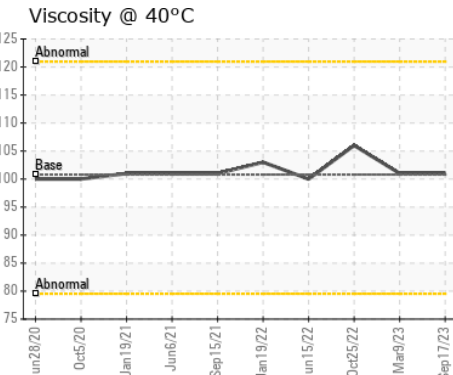
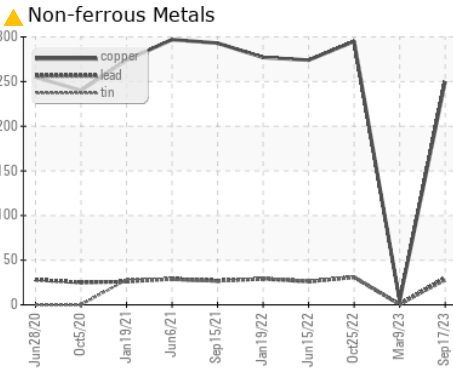
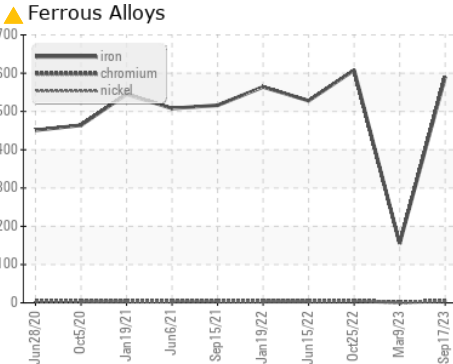
OIL ANALYSIS REPORT



| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 100.8 | 101 | 101 | 106 |

| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 |
|---------------|--|--------|------------|----------|----------|----------|
| Color | | | | no image | no image | no image |
| Bottom | | | | no image | no image | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106395 **Received** : 11 Dec 2023
Lab Number : 06031943 **Diagnosed** : 14 Dec 2023
Unique Number : 10781734 **Diagnostician** : Don Baldrige
Test Package : FLEET

PERDUE FARMS - GEORGETOWN
 20621 SAVANAH RD
 GEORGETOWN, DE
 US 19947
 Contact: ROBERT LOCKWOOD
 Robert.Lockwood@Perdue.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: