



OIL ANALYSIS REPORT

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

Area

[70412]

Machine Id

CRN032

Component

Front Differential

Fluid

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: New purchase PM-4 changed fluid )

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | PCA0109347  | ---      | ---      |
| Sample Date    |     | Client Info |           | 11 Apr 2024 | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 3980        | ---      | ---      |
| Oil Age        | hrs | Client Info |           | 3980        | ---      | ---      |
| Filter Age     | hrs | Client Info |           | 0           | ---      | ---      |
| Oil Changed    |     | Client Info |           | Changed     | ---      | ---      |
| Filter Changed |     | Client Info |           | N/A         | ---      | ---      |
| Sample Status  |     |             |           | NORMAL      | ---      | ---      |

WEAR

All component wear rates are normal.

|              |        |             |      |      |     |     |
|--------------|--------|-------------|------|------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >500 | 388  | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >10  | 12   | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | 0    | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | <1   | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | 0    | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >25  | 6    | --- | --- |
| Lead         | ppm    | ASTM D5185m | >25  | 21   | --- | --- |
| Copper       | ppm    | ASTM D5185m | >100 | 85   | --- | --- |
| Tin          | ppm    | ASTM D5185m | >10  | 6    | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| White Metal  | scalar | *Visual     | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE | --- | --- |

CONTAMINATION

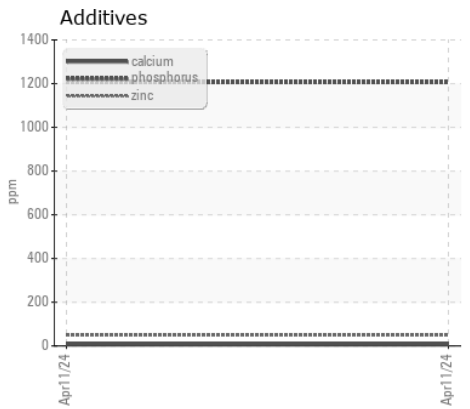
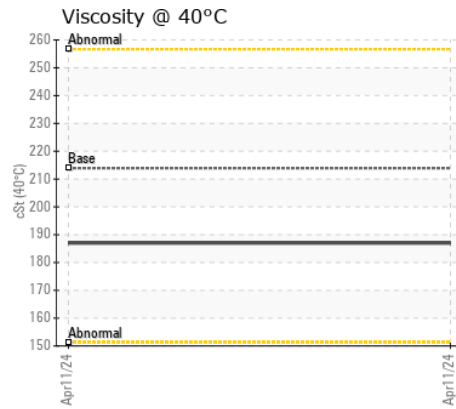
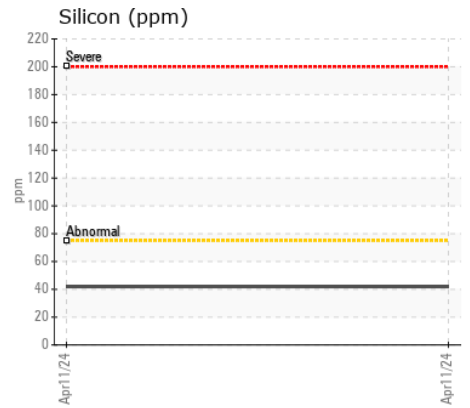
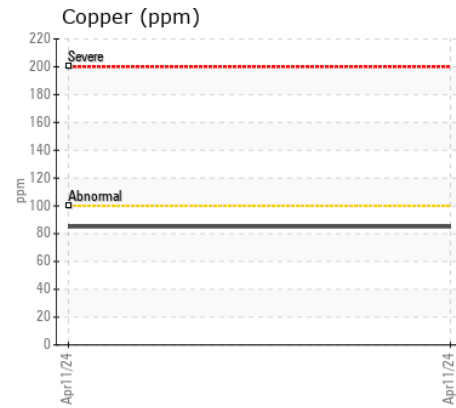
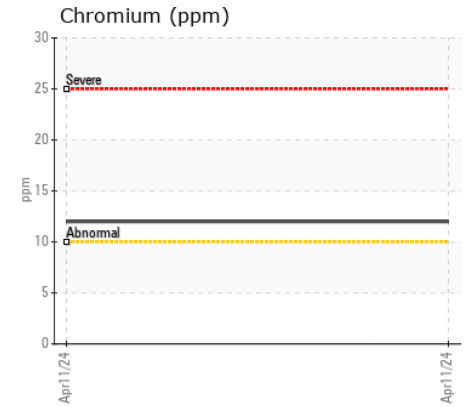
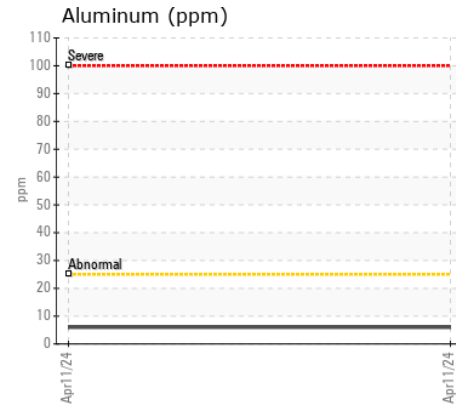
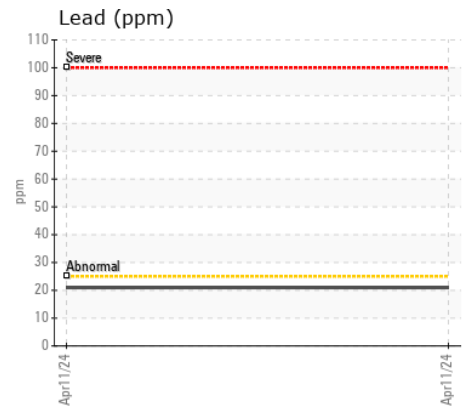
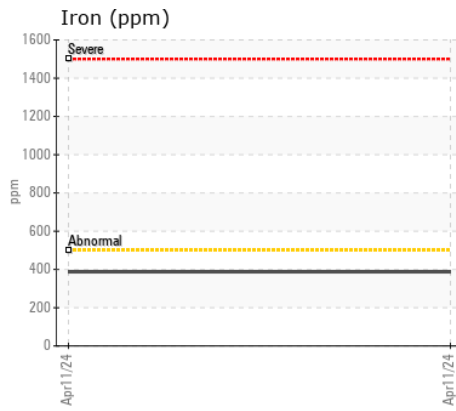
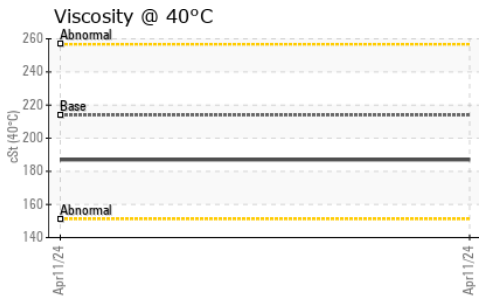
There is no indication of any contamination in the oil.

|                  |        |             |       |       |     |     |
|------------------|--------|-------------|-------|-------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >75   | 42    | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | 5     | --- | --- |
| Water            |        | WC Method   | >.2   | NEG   | --- | --- |
| Silt             | scalar | *Visual     | NONE  | NONE  | --- | --- |
| 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     | >.2   | NEG   | --- | --- |

FLUID CONDITION

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

|             |     |             |       |       |     |     |
|-------------|-----|-------------|-------|-------|-----|-----|
| Sodium      | ppm | ASTM D5185m |       | 14    | --- | --- |
| Boron       | ppm | ASTM D5185m | 2     | 28    | --- | --- |
| Barium      | ppm | ASTM D5185m | 0     | 10    | --- | --- |
| Molybdenum  | ppm | ASTM D5185m | 0     | 0     | --- | --- |
| Manganese   | ppm | ASTM D5185m | 0     | 12    | --- | --- |
| Magnesium   | ppm | ASTM D5185m | 9     | 4     | --- | --- |
| Calcium     | ppm | ASTM D5185m | 3114  | 8     | --- | --- |
| Phosphorus  | ppm | ASTM D5185m | 1099  | 1206  | --- | --- |
| Zinc        | ppm | ASTM D5185m | 1245  | 49    | --- | --- |
| Sulfur      | ppm | ASTM D5185m | 7086  | 27390 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445   | 213.9 | 187   | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109347  
**Lab Number** : 06156352  
**Unique Number** : 10991775  
**Test Package** : MOB 1

**Received** : 22 Apr 2024  
**Tested** : 23 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Sean Felton

**Kemp Quarries - Pryor Stone - Pryor**  
 1050 E 520 Rd  
 Pryor, OK  
 US 74361

Contact:  
 pryor@pryorstone.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: