



OIL ANALYSIS REPORT

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

Area  
**KEMP QUARRIES / BCS - GRAVETTE [70111]**

Machine Id  
**WL153**

Component  
**Transmission (Manual)**

Fluid  
**PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: Pm1 )

| Test           | UOM | Method      | Limit/Abn | Current     | History1    | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|----------|
| Sample Number  |     | Client Info |           | PCA0069784  | PCA0085745  | ---      |
| Sample Date    |     | Client Info |           | 13 Jun 2024 | 08 Jun 2023 | ---      |
| Machine Age    | hrs | Client Info |           | 42991       | 0           | ---      |
| Oil Age        | hrs | Client Info |           | 0           | 0           | ---      |
| Filter Age     | hrs | Client Info |           | 0           | 0           | ---      |
| Oil Changed    |     | Client Info |           | N/A         | Changed     | ---      |
| Filter Changed |     | Client Info |           | Cleaned     | Changed     | ---      |
| Sample Status  |     |             |           | ABNORMAL    | NORMAL      | ---      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |      |      |     |
|--------------|--------|-------------|------|------|------|-----|
| Iron         | ppm    | ASTM D5185m | >200 | 20   | 29   | --- |
| Chromium     | ppm    | ASTM D5185m | >5   | 0    | <1   | --- |
| Nickel       | ppm    | ASTM D5185m | >5   | 0    | 0    | --- |
| Titanium     | ppm    | ASTM D5185m |      | 0    | <1   | --- |
| Silver       | ppm    | ASTM D5185m | >7   | 0    | 0    | --- |
| Aluminum     | ppm    | ASTM D5185m | >25  | 2    | <1   | --- |
| Lead         | ppm    | ASTM D5185m | >45  | 4    | 4    | --- |
| Copper       | ppm    | ASTM D5185m | >225 | 31   | 83   | --- |
| Tin          | ppm    | ASTM D5185m | >10  | <1   | <1   | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | <1   | --- |
| White Metal  | scalar | *Visual     | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE | NONE | --- |

**CONTAMINATION**

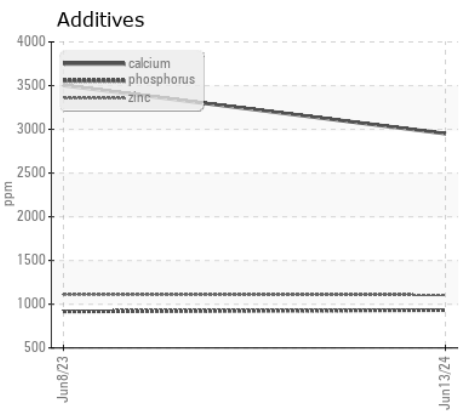
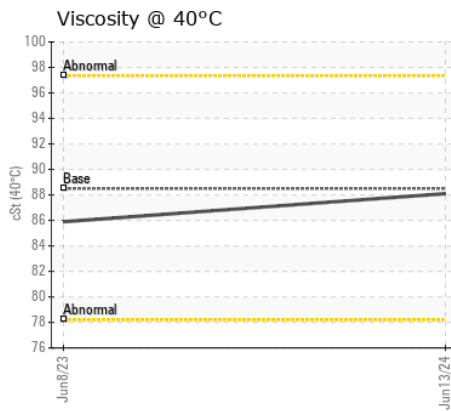
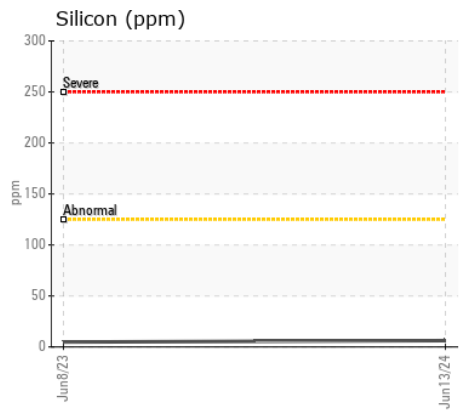
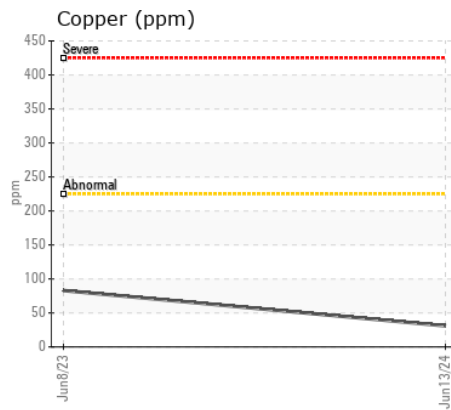
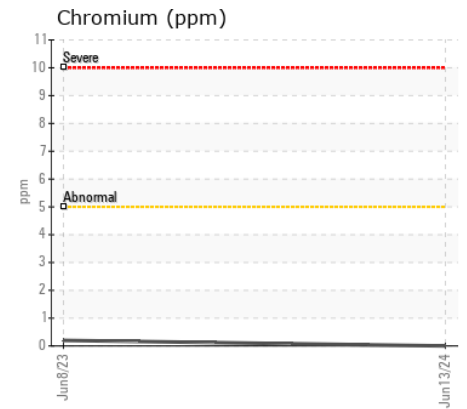
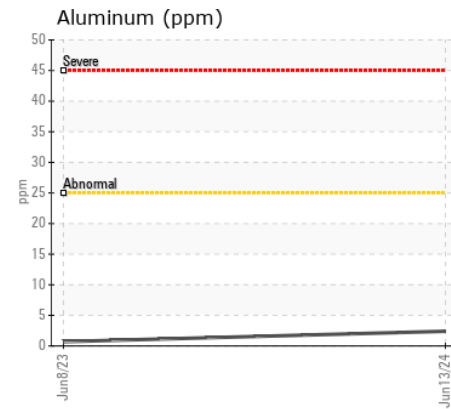
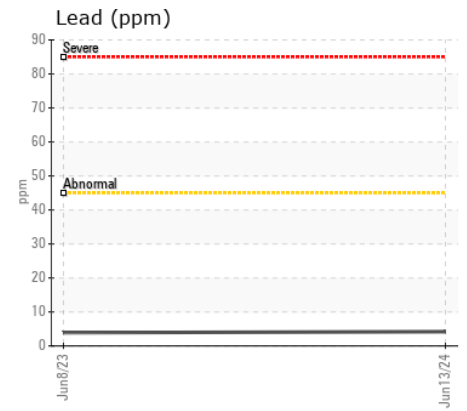
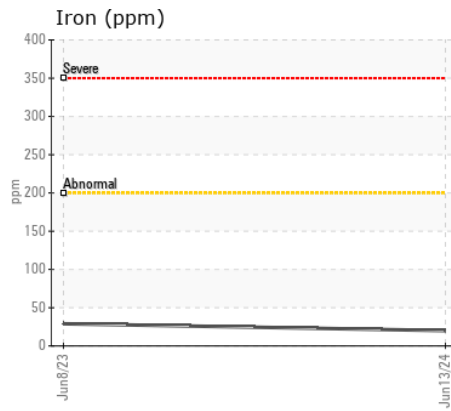
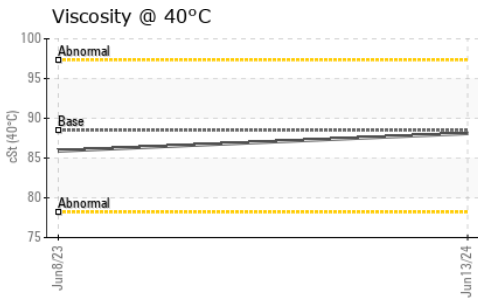
Moderate concentration of visible dirt/debris present in the fluid.

|                  |        |             |       |         |       |     |
|------------------|--------|-------------|-------|---------|-------|-----|
| Silicon          | ppm    | ASTM D5185m | >125  | 6       | 5     | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | 6       | 3     | --- |
| Water            |        | WC Method   | >0.1  | NEG     | NEG   | --- |
| Silt             | scalar | *Visual     | NONE  | NONE    | LIGHT | --- |
| Debris           | scalar | *Visual     | NONE  | ▲ MODER | NONE  | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | NONE    | NONE  | --- |
| Appearance       | scalar | *Visual     | NORML | NORML   | NORML | --- |
| Odor             | scalar | *Visual     | NORML | NORML   | NORML | --- |
| Emulsified Water | scalar | *Visual     | >0.1  | NEG     | NEG   | --- |

**FLUID CONDITION**

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

|             |     |             |      |      |      |     |
|-------------|-----|-------------|------|------|------|-----|
| Sodium      | ppm | ASTM D5185m |      | 4    | 4    | --- |
| Boron       | ppm | ASTM D5185m | 2    | 7    | 9    | --- |
| Barium      | ppm | ASTM D5185m | 0    | 0    | 0    | --- |
| Molybdenum  | ppm | ASTM D5185m | 0    | 6    | 3    | --- |
| Manganese   | ppm | ASTM D5185m | 9    | <1   | <1   | --- |
| Magnesium   | ppm | ASTM D5185m | 1    | 87   | 49   | --- |
| Calcium     | ppm | ASTM D5185m | 3131 | 2951 | 3502 | --- |
| Phosphorus  | ppm | ASTM D5185m | 1194 | 932  | 917  | --- |
| Zinc        | ppm | ASTM D5185m | 1281 | 1106 | 1110 | --- |
| Sulfur      | ppm | ASTM D5185m | 3811 | 4271 | 4311 | --- |
| Visc @ 40°C | cSt | ASTM D445   | 88.5 | 88.1 | 85.9 | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0069784  
**Lab Number** : 06232821  
**Unique Number** : 11116314  
**Test Package** : MOB 1

**Received** : 10 Jul 2024  
**Tested** : 11 Jul 2024  
**Diagnosed** : 12 Jul 2024 - Sean Felton

**Kemp Quarries - Benton County Stone - Gravette**  
 15100 N Hwy 59  
 Sulphur Springs, AR  
 US 72768  
 Contact:

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)

gravette@bentoncountystone.com

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