



OIL ANALYSIS REPORT

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

Area
KEMP QUARRIES / SELIGMAN [68983]

Machine Id
WL114

Component
Front Right Final Drive

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

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: PM-2 sampled fluid)

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | PCA0126291 | PCA0070595 | --- |
| Sample Date | | Client Info | | 11 Jun 2024 | 15 Nov 2023 | --- |
| Machine Age | hrs | Client Info | | 1491 | 953 | --- |
| Oil Age | hrs | Client Info | | 1491 | 0 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | N/A | N/A | --- |
| Filter Changed | | Client Info | | N/A | N/A | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron | ppm | ASTM D5185m | >500 | 137 | 75 | --- |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 1 | <1 | --- |
| Lead | ppm | ASTM D5185m | >25 | 1 | <1 | --- |
| Copper | ppm | ASTM D5185m | >50 | 32 | 19 | --- |
| Tin | ppm | ASTM D5185m | >10 | 2 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

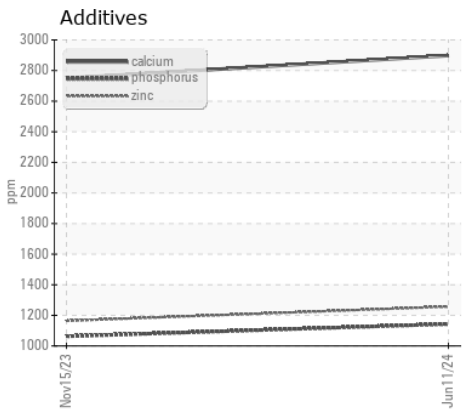
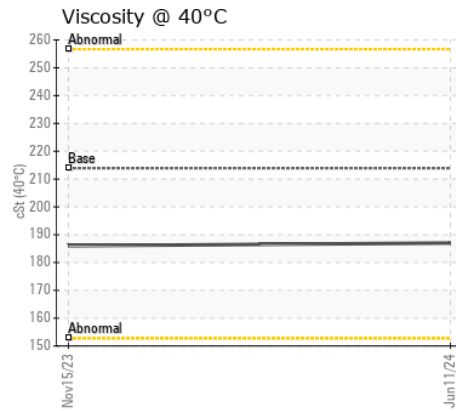
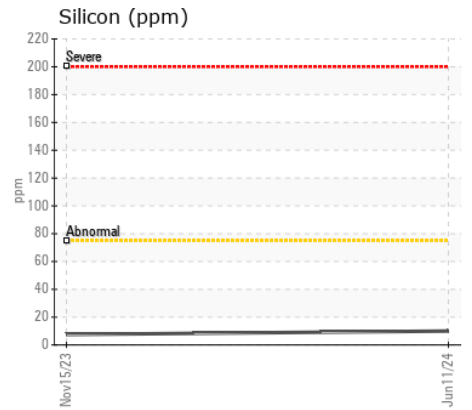
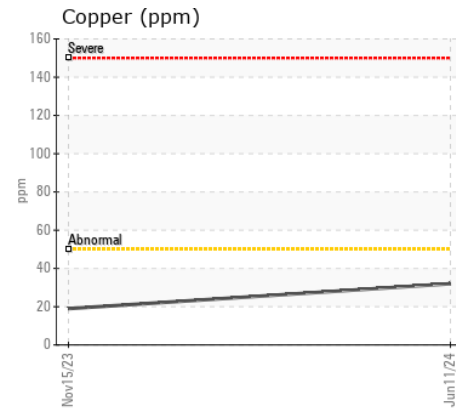
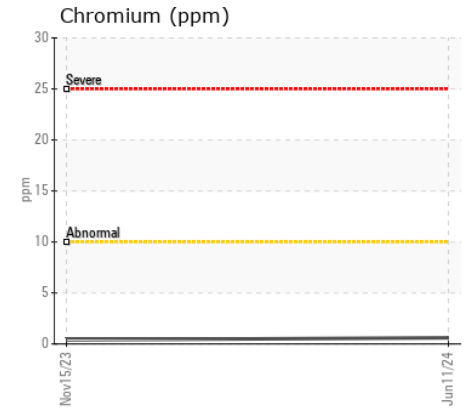
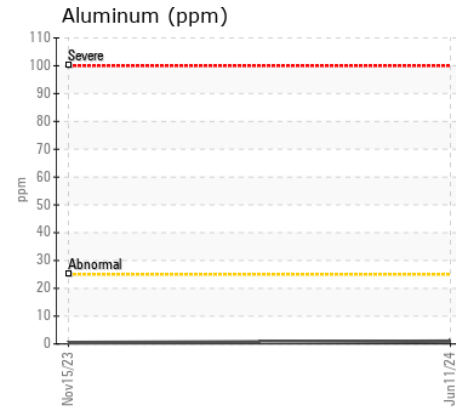
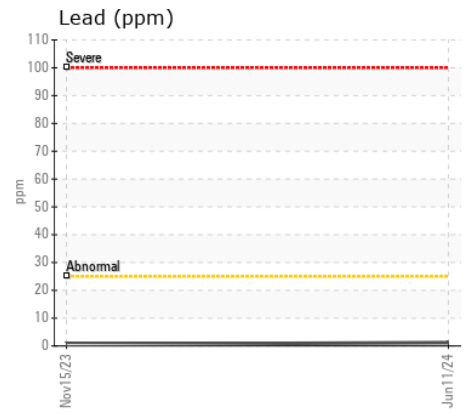
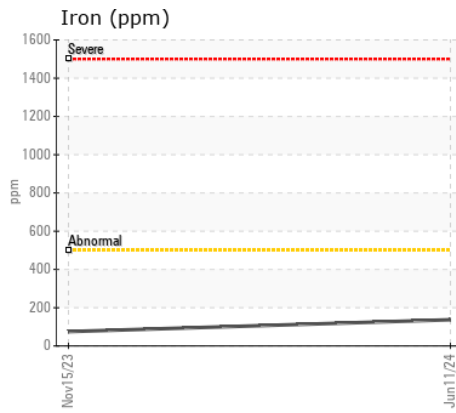
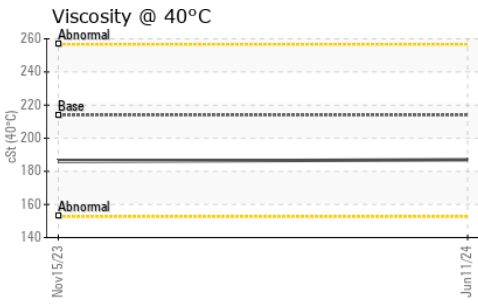
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >75 | 10 | 8 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 0 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | --- |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|-------|-------------|------|-----|
| Sodium | ppm | ASTM D5185m | | 4 | 3 | --- |
| Boron | ppm | ASTM D5185m | 2 | 8 | 7 | --- |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | <1 | --- |
| Manganese | ppm | ASTM D5185m | 0 | 3 | 1 | --- |
| Magnesium | ppm | ASTM D5185m | 9 | 16 | 13 | --- |
| Calcium | ppm | ASTM D5185m | 3114 | 2898 | 2750 | --- |
| Phosphorus | ppm | ASTM D5185m | 1099 | 1143 | 1063 | --- |
| Zinc | ppm | ASTM D5185m | 1245 | 1257 | 1164 | --- |
| Sulfur | ppm | ASTM D5185m | 7086 | 6954 | 5423 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 213.9 | 187 | 186 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PCA0126291

Lab Number : 06216394

Unique Number : 11089258

Test Package : MOB 1

Received : 20 Jun 2024

Tested : 21 Jun 2024

Diagnosed : 23 Jun 2024 - Don Baldrige

Kemp Quarries - BCS - Seligman

8261 Farm rd 2295

Seligman, MO

US 65745

Contact: TECHNICIAN ACCOUNT

catherine.anastasio@wearcheck.com

T:

F:

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)