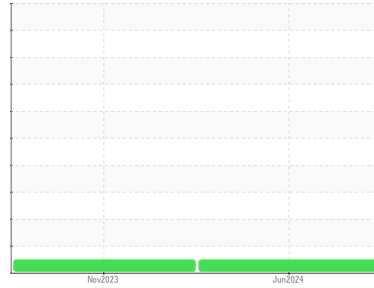


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
KEMP QUARRIES / SELIGMAN [68983]
 Machine Id
WL114
 Component
Transmission (Manual)
 Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

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

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number | Client Info | | | PCA0126285 | PCA0070602 | --- |
| Sample Date | Client Info | | | 11 Jun 2024 | 20 Nov 2023 | --- |
| Machine Age | hrs | Client Info | | 1491 | 953 | --- |
| Oil Age | hrs | Client Info | | 1491 | 0 | --- |
| Oil Changed | Client Info | | | Changed | N/A | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water | WC Method | | >0.1 | NEG | NEG | --- |

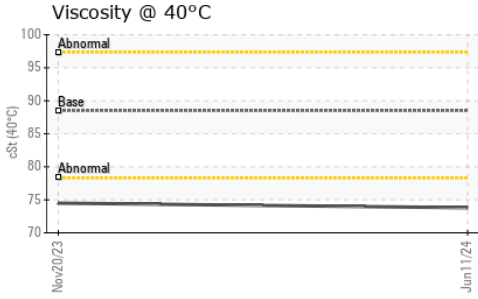
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >200 | 13 | 10 | --- |
| Chromium | ppm | ASTM D5185m | >5 | 0 | 0 | --- |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | >7 | <1 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 1 | --- |
| Lead | ppm | ASTM D5185m | >45 | <1 | 1 | --- |
| Copper | ppm | ASTM D5185m | >225 | 87 | 67 | --- |
| Tin | ppm | ASTM D5185m | >10 | <1 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | --- |
| Cadmium | ppm | ASTM D5185m | | <1 | <1 | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 2 | 5 | 2 | --- |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 1 | --- |
| Manganese | ppm | ASTM D5185m | 9 | <1 | 0 | --- |
| Magnesium | ppm | ASTM D5185m | 1 | 25 | 22 | --- |
| Calcium | ppm | ASTM D5185m | 3131 | 2912 | 2630 | --- |
| Phosphorus | ppm | ASTM D5185m | 1194 | 1117 | 1009 | --- |
| Zinc | ppm | ASTM D5185m | 1281 | 1238 | 1120 | --- |
| Sulfur | ppm | ASTM D5185m | 3811 | 5687 | 4240 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >125 | 5 | 6 | --- |
| Sodium | ppm | ASTM D5185m | | 3 | 2 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 0 | --- |

| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | --- |
| 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 | >0.1 | NEG | NEG | --- |
| Free Water | scalar | *Visual | | NEG | NEG | --- |

OIL ANALYSIS REPORT

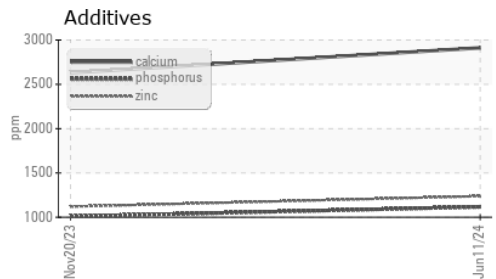
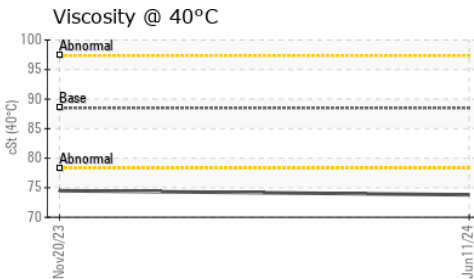
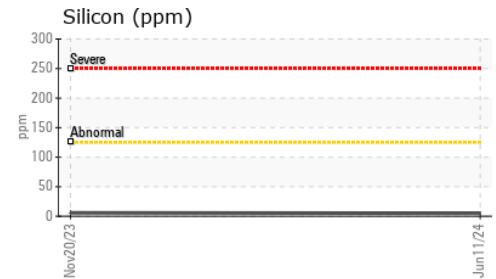
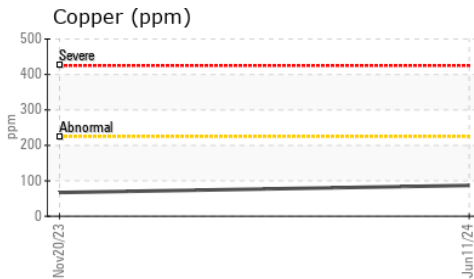
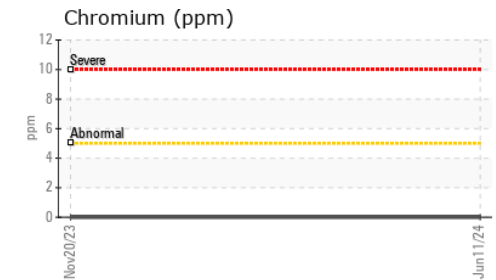
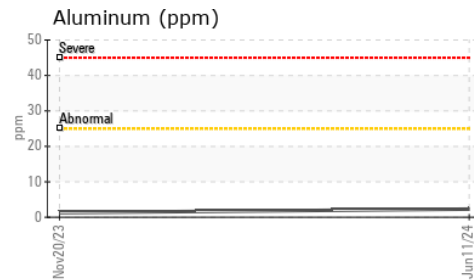
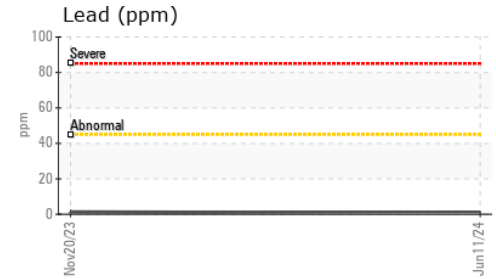
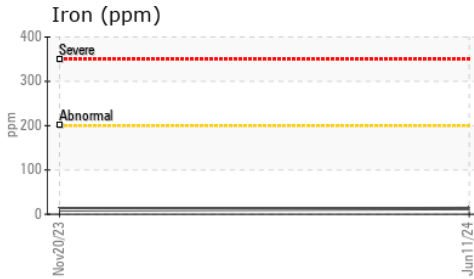


| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 88.5 | 73.8 | 74.5 | --- |

| 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. : PCA0126285 **Received** : 20 Jun 2024
Lab Number : 06216406 **Tested** : 23 Jun 2024
Unique Number : 11089270 **Diagnosed** : 23 Jun 2024 - Don Baldrige
Test Package : MOB 1

Kemp Quarries - BCS - Seligman
 8261 Farm rd 2295
 Seligman, MO
 US 65745

Contact: TECHNICIAN ACCOUNT
 catherine.anastasio@wearcheck.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: