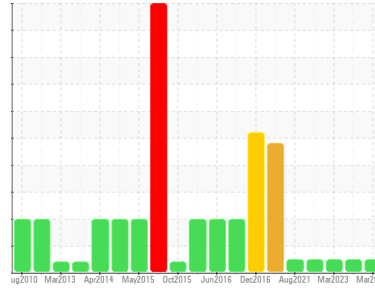


OIL ANALYSIS REPORT



Area
KEMP QUARRIES / PRYOR [68552]
Machine Id
WL053
Component
Front Left Final Drive
Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

Sample Rating Trend



NORMAL



DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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 | | PCA0109322 | PCA0069743 | PCA0084584 |
| Sample Date | Client Info | | 22 Mar 2024 | 12 Oct 2023 | 03 Mar 2023 |
| Machine Age | hrs | Client Info | 38464 | 38230 | 37915 |
| Oil Age | hrs | Client Info | 38464 | 37414 | 284 |
| Oil Changed | Client Info | | N/A | N/A | N/A |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >800 | 209 | 143 | 160 |
| Chromium | ppm | ASTM D5185m >10 | 1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m >5 | 1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m >15 | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >75 | 2 | 2 | 2 |
| Lead | ppm | ASTM D5185m >10 | 5 | 5 | 1 |
| Copper | ppm | ASTM D5185m >75 | 62 | 51 | 25 |
| Tin | ppm | ASTM D5185m >8 | 3 | 2 | <1 |
| Vanadium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | <1 | <1 | <1 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|-------------|----------|----------|
| Boron | ppm | ASTM D5185m 2 | 41 | 38 | 35 |
| Barium | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 0 | 2 | 0 | <1 |
| Manganese | ppm | ASTM D5185m 0 | 2 | 2 | 2 |
| Magnesium | ppm | ASTM D5185m 9 | 17 | 16 | 15 |
| Calcium | ppm | ASTM D5185m 3114 | 2416 | 2201 | 2514 |
| Phosphorus | ppm | ASTM D5185m 1099 | 950 | 808 | 884 |
| Zinc | ppm | ASTM D5185m 1245 | 922 | 867 | 873 |
| Sulfur | ppm | ASTM D5185m 7086 | 9920 | 8376 | 9985 |

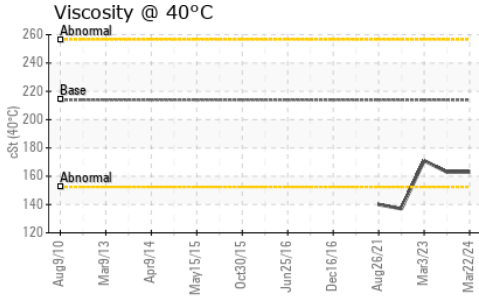
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >400 | 13 | 12 | 10 |
| Sodium | ppm | ASTM D5185m | <1 | 2 | 1 |
| Potassium | ppm | ASTM D5185m >20 | 2 | <1 | 0 |

VISUAL

| | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| White Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual NONE | NONE | MODER | MODER |
| 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 >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | NEG | NEG | NEG |

OIL ANALYSIS REPORT

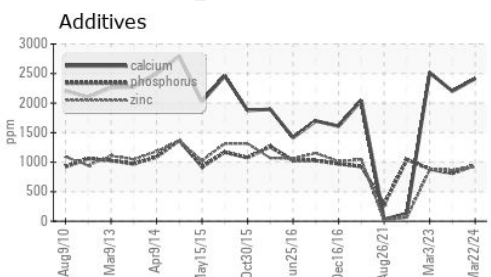
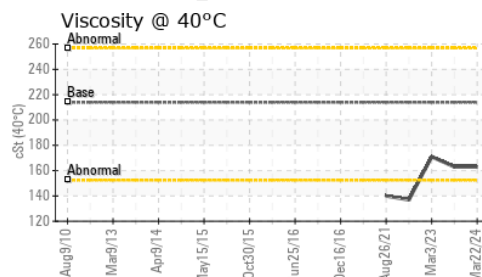
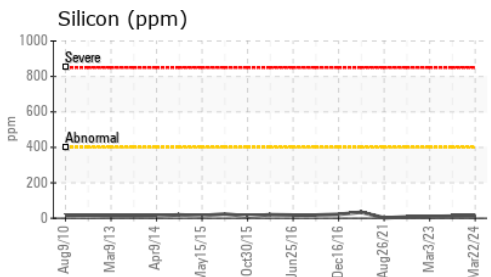
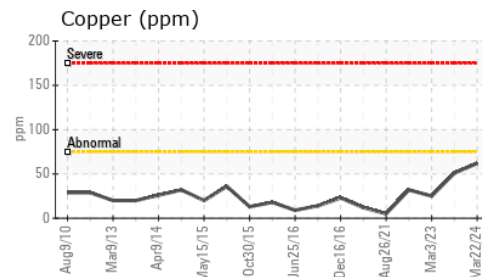
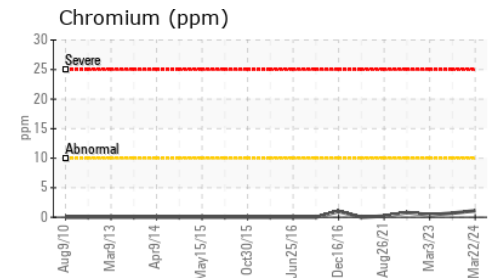
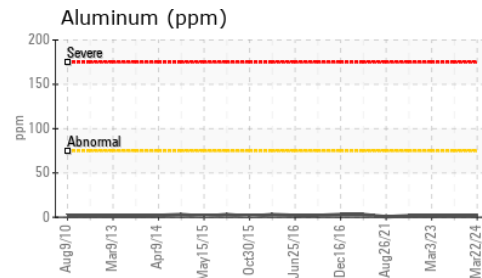
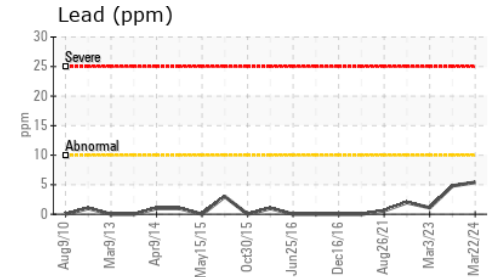
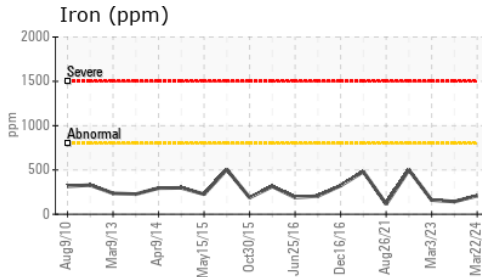


| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 213.9 | 163 | 163 | 171 |

| 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. : PCA0109322
Lab Number : **06135314**
Unique Number : 10954779
Test Package : MOB 1

Received : 01 Apr 2024
Tested : 02 Apr 2024
Diagnosed : 04 Apr 2024 - Jonathan Hester

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

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)

Contact: pryor@pryorstone.com

T:

F: