

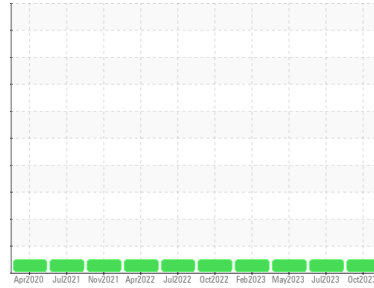
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
KEMP QUARRIES / PRYOR STONE [66579]
Machine Id
WL137
Component
Rear Differential
Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Pm1 performed. All oil samples taken. Engine oil, and all filters changed.)

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 | | PCA0086228 | PCA0084229 | PCA0083971 |
| Sample Date | Client Info | | 06 Oct 2023 | 28 Jul 2023 | 18 May 2023 |
| Machine Age | hrs | Client Info | 32269 | 31785 | 31319 |
| Oil Age | hrs | Client Info | 484 | 2146 | 1680 |
| Oil Changed | Client Info | | Oil Added | Changed | Oil Added |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >500 | 27 | 10 | 9 |
| Chromium | ppm | ASTM D5185m >3 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m >3 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m >2 | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >30 | 3 | 4 | 2 |
| Lead | ppm | ASTM D5185m >13 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m >103 | 1 | 1 | <1 |
| Tin | ppm | ASTM D5185m >5 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 2 | 1 | 0 | 0 |
| Barium | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 0 | <1 | 0 | 1 |
| Manganese | ppm | ASTM D5185m 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m 9 | 2 | 16 | 19 |
| Calcium | ppm | ASTM D5185m 3114 | 3749 | 3471 | 3452 |
| Phosphorus | ppm | ASTM D5185m 1099 | 1029 | 993 | 978 |
| Zinc | ppm | ASTM D5185m 1245 | 1377 | 1227 | 1193 |
| Sulfur | ppm | ASTM D5185m 7086 | 5133 | 7674 | 7586 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >100 | 22 | 15 | 16 |
| Sodium | ppm | ASTM D5185m | <1 | <1 | 1 |
| Potassium | ppm | ASTM D5185m >20 | 2 | 0 | <1 |

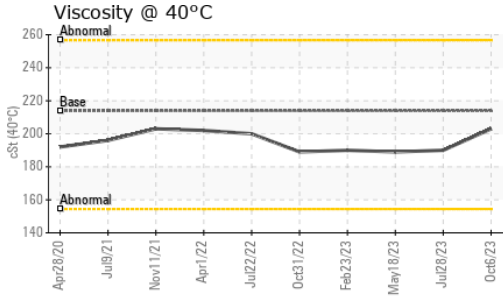
VISUAL

| | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| White Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| 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 >.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | NEG | NEG | NEG |

FLUID PROPERTIES

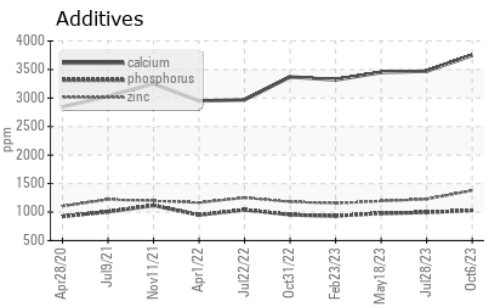
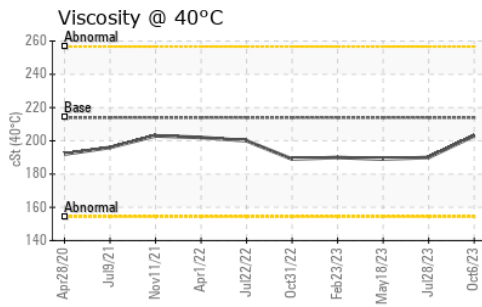
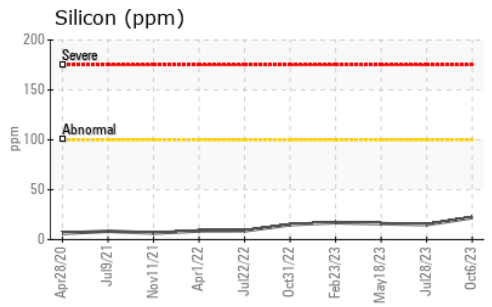
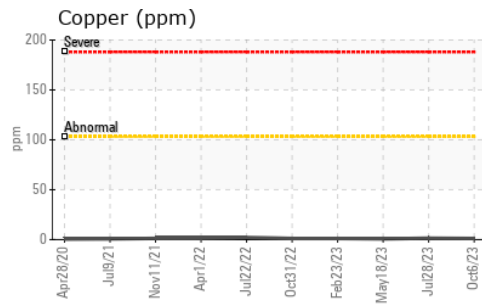
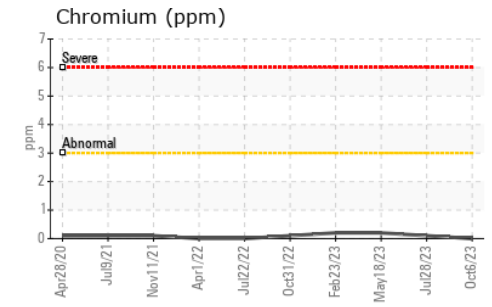
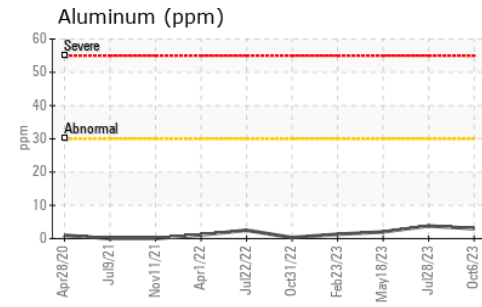
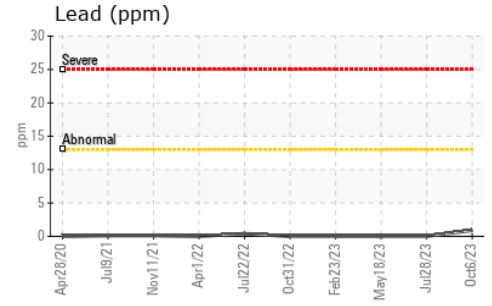
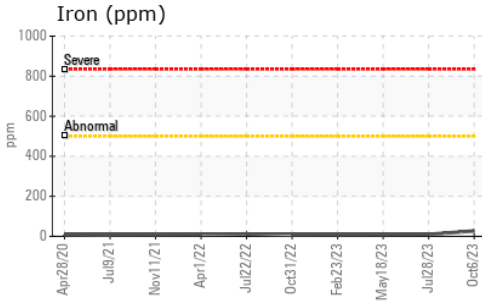
| | method | limit/base | current | history1 | history2 |
|-------------|--------|-----------------|------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 213.9 | 203 | 190 | 189 |

OIL ANALYSIS REPORT



| 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. : PCA0086228 **Received** : 16 Oct 2023
Lab Number : 05980717 **Diagnosed** : 18 Oct 2023
Unique Number : 10698012 **Diagnostician** : Sean Felton
Test Package : MOB 1

Kemp Quarries - Pryor Stone - Pryor
 1050 E 520 Rd
 Pryor, OK
 US 74361
 Contact:
 pryor@pryorstone.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)