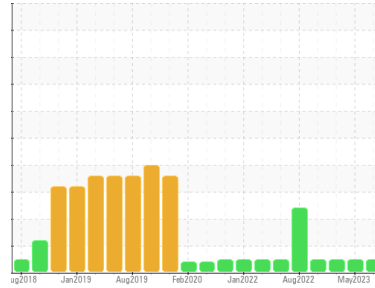


Area
KEMP QUARRIES / KEMP STONE - FAIRLAND
Machine Id
WL119
Component
Hydraulic System
Fluid
PETRO CANADA DURATRAN (--- GAL)



DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component.

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 | | PCA0086457 | PCA0085739 | PCA0086762 |
| Sample Date | Client Info | | 09 Aug 2023 | 16 May 2023 | 06 Mar 2023 |
| Machine Age | hrs | Client Info | 6527 | 6375 | 6238 |
| Oil Age | hrs | Client Info | 6527 | 6375 | 6238 |
| Oil Changed | Client Info | | Changed | N/A | N/A |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >20 | 2 | <1 | 2 |
| Chromium | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >10 | <1 | <1 | 1 |
| Lead | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m >75 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| 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 110 | 73 | 113 | 82 |
| Barium | ppm | ASTM D5185m 0.0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 0.0 | 1 | 1 | <1 |
| Manganese | ppm | ASTM D5185m 1 | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m 13 | 15 | 25 | 23 |
| Calcium | ppm | ASTM D5185m 3610 | 2076 | 3575 | 2731 |
| Phosphorus | ppm | ASTM D5185m 1192 | 785 | 1115 | 886 |
| Zinc | ppm | ASTM D5185m 1455 | 968 | 1409 | 1132 |
| Sulfur | ppm | ASTM D5185m 2641 | 2542 | 3837 | 3103 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m >20 | 8 | 9 | 8 |
| Sodium | ppm | ASTM D5185m | 4 | <1 | 2 |
| Potassium | ppm | ASTM D5185m >20 | 0 | 2 | 0 |

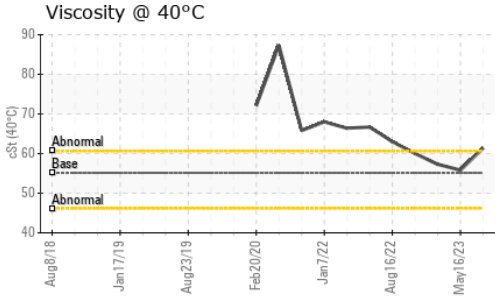
VISUAL

| | 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 >0.1 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | NEG | NEG | NEG |

FLUID PROPERTIES

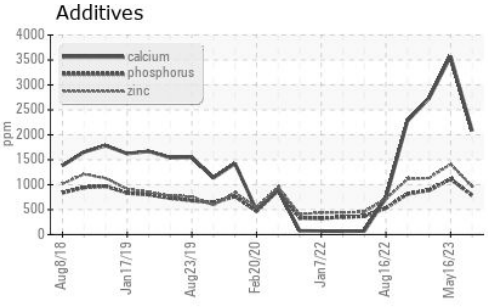
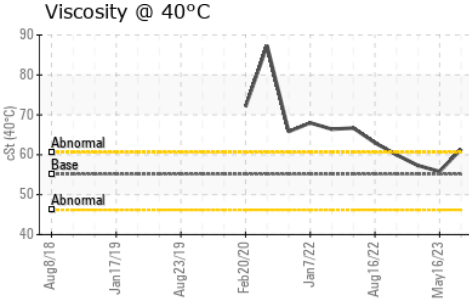
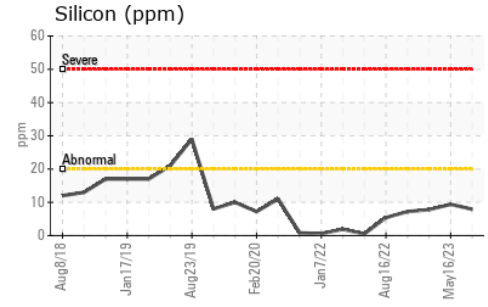
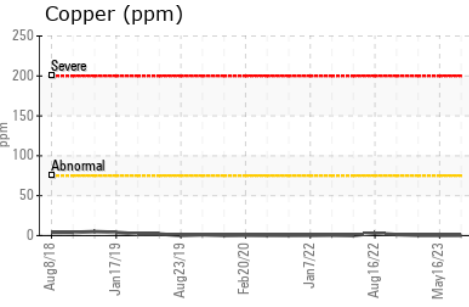
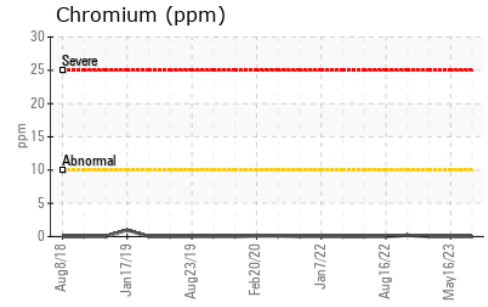
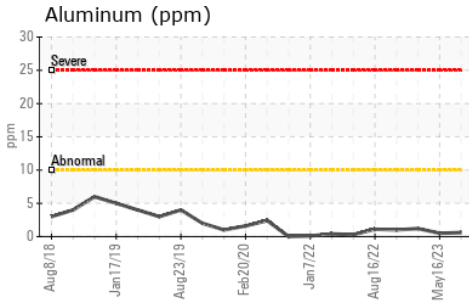
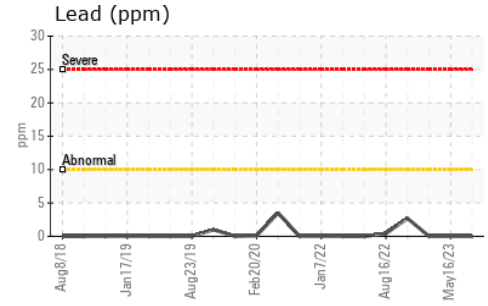
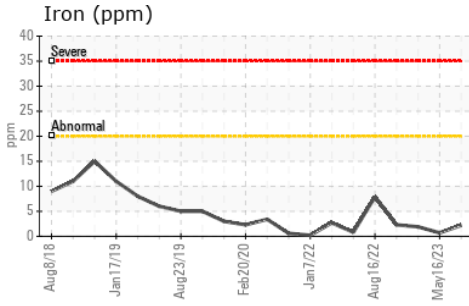
| | method | limit/base | current | history1 | history2 |
|-------------|--------|-----------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 55.14 | 61.4 | 55.8 | 57.3 |

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. : PCA0086457
Lab Number : 05936477
Unique Number : 10621748
Test Package : MOB 1

Kemp Quarries - Kemp Stone - Fairland
 18350 S 590 Rd
 Fairland, OK
 US 74343
 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)

fairland@kempstone.com

T:

F: