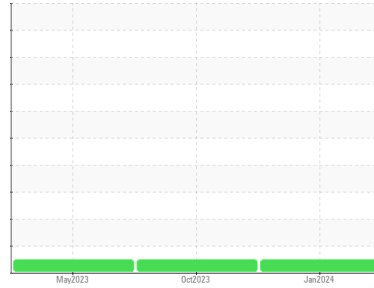


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
KEMP QUARRIES / RVM - ARKOMA
 Machine Id
WL150
 Component
Transmission (Manual)
 Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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 | | PCA0084473 | PCA0084193 | PCA0085735 |
| Sample Date | Client Info | | 30 Jan 2024 | 24 Oct 2023 | 16 May 2023 |
| Machine Age | hrs | Client Info | 34346 | 33859 | 33313 |
| Oil Age | hrs | Client Info | 33859 | 33313 | 33313 |
| Oil Changed | Client Info | | Not Chngd | Not Chngd | N/A |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

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

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >200 | 7 | 1 | 7 |
| Chromium | ppm | ASTM D5185m >5 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m >5 | 1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m >7 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >25 | 3 | 1 | <1 |
| Lead | ppm | ASTM D5185m >45 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185m >225 | 5 | 2 | 5 |
| Tin | ppm | ASTM D5185m >10 | 1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | <1 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 2 | <1 | 0 | 2 |
| Barium | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 0 | 4 | 0 | <1 |
| Manganese | ppm | ASTM D5185m 9 | 1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m 1 | 29 | 27 | 10 |
| Calcium | ppm | ASTM D5185m 3131 | 3790 | 3146 | 3524 |
| Phosphorus | ppm | ASTM D5185m 1194 | 1152 | 995 | 883 |
| Zinc | ppm | ASTM D5185m 1281 | 1403 | 1170 | 1067 |
| Sulfur | ppm | ASTM D5185m 3811 | 4274 | 3737 | 3939 |

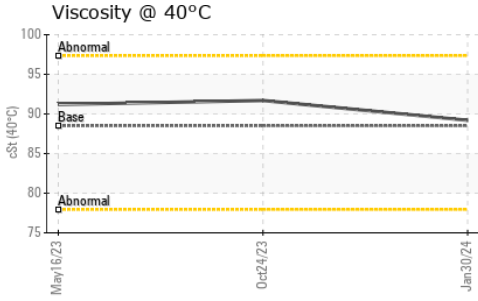
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m >125 | 7 | 5 | 14 |
| Sodium | ppm | ASTM D5185m | 0 | <1 | 0 |
| Potassium | ppm | ASTM D5185m >20 | 2 | <1 | 2 |

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 |

OIL ANALYSIS REPORT

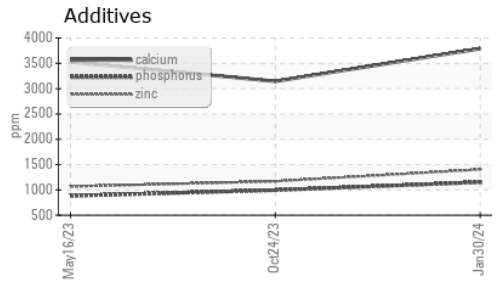
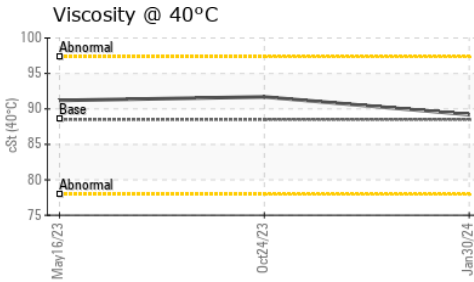
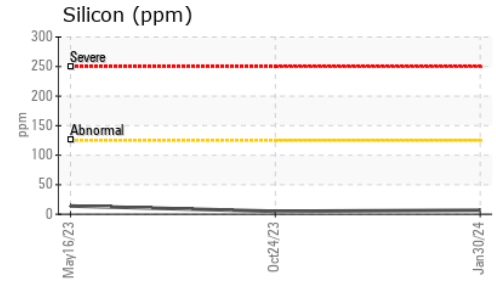
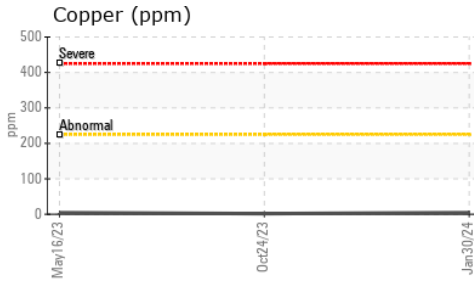
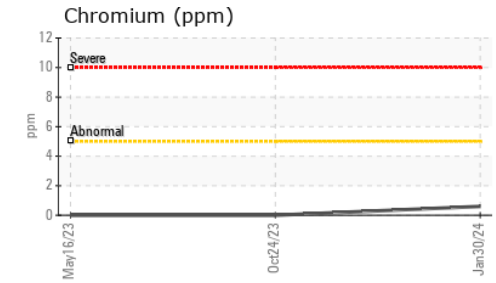
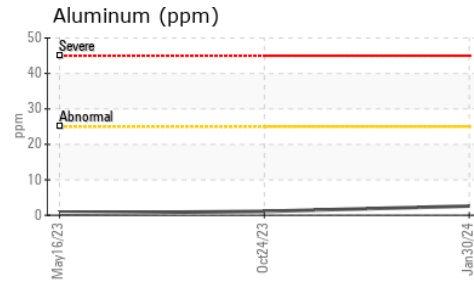
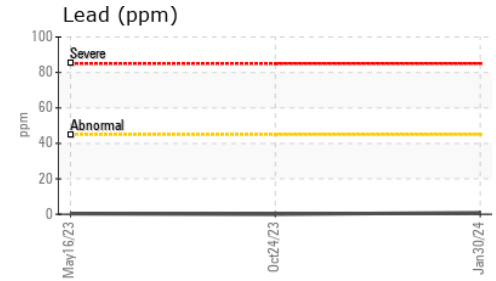
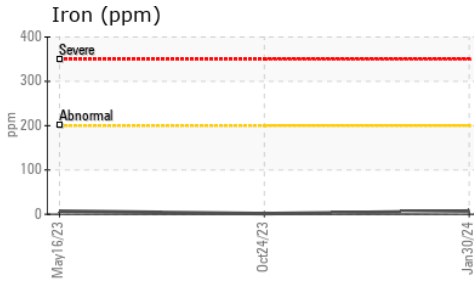


| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|-------------|----------|------|
| Visc @ 40°C | cSt | ASTM D445 | 88.5 | 89.2 | 91.7 | 91.2 |

| 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. : PCA0084473
 Lab Number : 06082128
 Unique Number : 10869573
 Test Package : MOB 1

Received : 06 Feb 2024
 Tested : 07 Feb 2024
 Diagnosed : 07 Feb 2024 - Wes Davis

Kemp Quarries - River Valley - Arkoma
 12971 HWY 9a
 Shawnee, OK
 US 74804

Contact: arkomashop@kempquarries.net

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: