

OIL ANALYSIS REPORT

Sample Rating Trend

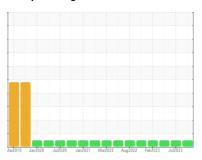
NORMAL



KEMP QUARRIES / KEMP STONE - FAIRLAND [66473] **WL128**

Component **Front Right Final Drive**

PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-3 sampled fluid)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

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

| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
|------------------|--------|-------------|--------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | PCA0084723 | PCA0084603 | PCA0086001 |
| Sample Date | | Client Info | | 06 Oct 2023 | 10 Jul 2023 | 20 Apr 2023 |
| Machine Age | hrs | Client Info | | 34458 | 33887 | 33426 |
| Oil Age | hrs | Client Info | | 34458 | 33887 | 33426 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR METAL | _S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >800 | 25 | 21 | 15 |
| Chromium | ppm | ASTM D5185m | >10 | 3 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | | 3 | 2 | 1 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >8 | 0 | 0 | 0 |
| Vanadium | | ASTM D5185m | >0 | 0 | 0 | 0 |
| Cadmium | ppm | | | 0 | 0 | 0 |
| | ppm | ASTM D5185m | | U | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 2 | 0 | 5 | 0 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | 0 | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 9 | 15 | 14 | 17 |
| Calcium | ppm | ASTM D5185m | 3114 | 3362 | 3380 | 3359 |
| Phosphorus | ppm | ASTM D5185m | 1099 | 944 | 948 | 909 |
| Zinc | ppm | ASTM D5185m | 1245 | 1210 | 1165 | 1123 |
| Sulfur | ppm | ASTM D5185m | 7086 | 4926 | 5735 | 5155 |
| CONTAMINAN | NTS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >400 | 35 | 34 | 32 |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 1 | 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 | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | ⊅ ∪.∠ | NEG | NEG | NEG |
| | | | | NEG | | |
| FLUID PROPE | RTIES | method | limit/base | current | history1 | history2 |
| | _ | | | | | |

Visc @ 40°C

cSt

ASTM D445 213.9

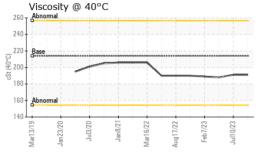
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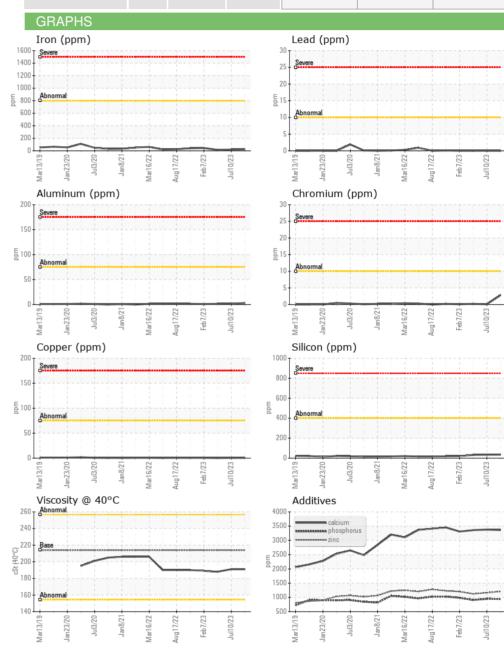
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OIL ANALYSIS REPORT









Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number**

: 05980729

: PCA0084723 : 10698024 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Oct 2023

: 18 Oct 2023 Diagnosed Diagnostician : Sean Felton

Kemp Quarries - Kemp Stone - Fairland 18350 S 590 Rd

Fairland, OK US 74343

Contact: fairland@kempstone.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)

Report Id: KEMFAI [WUSCAR] 05980729 (Generated: 10/19/2023 18:11:43) Rev: 1

Submitted By: