

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



U CO

KEMP QUARRIES / PRYOR STONE [57827] OHT101

Component Rear 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-4 changed fluid)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

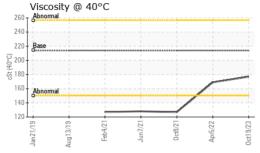
Fluid Condition

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

| 10 10-4 SAE 50 (- | , | Jan2019 | Aug2019 Feb2021 J | lun2021 Oct2021 Apr2022 | Oct2023 | |
|--|--|--|---|--|---|--|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PCA0087068 | PCA0062663 | PCA0011229 |
| Sample Date | | Client Info | | 19 Oct 2023 | 05 Apr 2022 | 08 Oct 2021 |
| Machine Age | hrs | Client Info | | 17273 | 16935 | 16717 |
| Oil Age | hrs | Client Info | | 17273 | 16717 | 16717 |
| Oil Changed | | Client Info | | Changed | Not Changd | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >800 | 62 | 45 | 166 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | 1 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >15 | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >75 | 1 | 2 | <1 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >75 | 23 | 7 | 14 |
| Tin | ppm | ASTM D5185m | >8 | 2 | <1 | 2 |
| Antimony | ppm | ASTM D5185m | >50 | | | 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 | 2 | 38 | 35 | 183 |
| Barium | ppm | ASTM D5185m | 0 | 20 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 5 | 4 | 16 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | 2 |
| Magnesium | ppm | ASTM D5185m | 9 | 15 | 13 | 12 |
| Calcium | ppm | ASTM D5185m | 3114 | 3116 | 2816 | 307 |
| Phosphorus | ppm | ASTM D5185m | 1099 | 1099 | 1029 | 1038 |
| Zinc | ppm | ASTM D5185m | 1245 | 1099 | 1051 | 150 |
| Sulfur | ppm | ASTM D5185m | 7086 | 9741 | 6878 | 22558 |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | | | | | | |
| JJUII | ppm | ASTM D5185m | >400 | 33 | 18 | 7 |
| | ppm ppm | ASTM D5185m | | 33 6 | 18 1 | 7 |
| Sodium | | | | | | |
| Sodium | ppm | ASTM D5185m | | 6 | 1 | 1 |
| Sodium Potassium VISUAL White Metal | ppm ppm | ASTM D5185m ASTM D5185m method *Visual | >20 limit/base NONE | 6 2 current | 1 2 history1 NONE | 1 0 history2 MODER |
| Sodium Potassium VISUAL White Metal Yellow Metal | ppm ppm scalar scalar | ASTM D5185m ASTM D5185m method *Visual | >20 limit/base NONE NONE | 6 2 current NONE NONE | 1 2 history1 NONE NONE | 1 0 history2 MODER NONE |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate | ppm ppm scalar scalar scalar | ASTM D5185m ASTM D5185m method *Visual *Visual | >20 limit/base NONE NONE | 6 2 current NONE NONE NONE | 1 2 history1 NONE NONE NONE | 1 0 history2 MODER NONE |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt | ppm ppm scalar scalar scalar scalar | ASTM D5185m ASTM D5185m method *Visual *Visual *Visual *Visual | >20 limit/base NONE NONE NONE | 6 2 current NONE NONE NONE NONE | 1 2 history1 NONE NONE NONE NONE | 1 0 history2 MODER NONE NONE |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris | ppm ppm scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m method *Visual *Visual *Visual *Visual *Visual *Visual | >20 limit/base NONE NONE NONE NONE NONE NONE | current NONE NONE NONE NONE NONE NONE | 1 2 history1 NONE NONE NONE | 1 0 history2 MODER NONE |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris | ppm ppm scalar scalar scalar scalar | ASTM D5185m ASTM D5185m method *Visual *Visual *Visual *Visual | >20 limit/base NONE NONE NONE NONE NONE NONE NONE | current NONE NONE NONE NONE NONE NONE NONE NON | 1 2 history1 NONE NONE NONE NONE | 1 0 history2 MODER NONE NONE |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt | ppm ppm scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m method *Visual *Visual *Visual *Visual *Visual *Visual | >20 limit/base NONE NONE NONE NONE NONE NONE | current NONE NONE NONE NONE NONE NONE | history1 NONE NONE NONE NONE NONE NONE NONE | 1 0 history2 MODER NONE NONE NONE |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor | ppm ppm scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m method *Visual *Visual *Visual *Visual *Visual *Visual *Visual | >20 limit/base NONE NONE NONE NONE NONE NONE NONE | current NONE NONE NONE NONE NONE NONE NONE NON | history1 NONE NONE NONE NONE NONE NONE NONE NON | history2 MODER NONE NONE NONE NONE NONE NONE |
| Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance | ppm ppm scalar scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m method *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual | >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON | current NONE NONE NONE NONE NONE NONE NONE NON | history1 NONE NONE NONE NONE NONE NONE NONE NON | history2 MODER NONE NONE NONE NONE NONE NONE NONE NO |



OIL ANALYSIS REPORT





| OBABLI | 0 | | | | | |
|----------------------|----------|----------|----------|-----------|----------|--|
| GRAPH Iron (ppm | | | | | | Lead (ppm) |
| | ') | | | | | 30 |
| Severe | | | | | | 25 Severe |
| Abnormal | | | | | | 20 - |
| Abnormal | | | | | | 10 - Abnormal |
| | | | | | | 5 |
| Jan21/19 + | Feb4/21- | Jun7/21 | Oct6/21- | Apr5/22 | Oct19/23 | Jan21/19 Theb4/21 - Feb4/21 - Jun7/21 - Oct8/21 - Apr5/22 - Apr5/2 |
| _ | | μ | 00 | Apı | 0ct1 | |
| Aluminum | (ppm) | | | | | Chromium (ppm) |
| Severe | | | | | | 25 - Severe |
| li i | | | | | | 20 |
| Abnormal | | | | | | E 15 Abnormal |
| | | | | | | 5+ |
| 6 6 | 21 | 21- | 21- | - 22 | - 33 | 66 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - |
| Jan21/19 Aug13/19 | Feb4/21 | Jun7/21 | Oct8/21 | Apr5/22 . | Oct19/23 | Jan21/19 Aug13/19 Feb4/21 Jun7/21 Apr5/22 |
| Copper (p | pm) | | | | | Silicon (ppm) |
| Severe | | | | | | Severe Severe |
| + | | | | | | 800 |
| Abnormal | | | | | | E 400 Abnormal |
| Zonoma | | | | | | 200 |
| | | | | | | |
| Jan21/19 | Feb4/21 | Jun7/21- | Oct8/21- | Apr5/22 . | 0ct19/23 | Jan21/19 4 Aug13/19 - Feb4/21 - Jun7/21 - |
| - | | ゔ | 0 | Ā | 0 | |
| Viscosity (| @ 40°C | | | | | Additives |
| Base | | | | | | 3000 calcium 2500 phosphorus |
| Dase | | | | | | Zillo |
| Ahnormal | | | | | | E 2000 |
| Abnormal | | | | | | 500 |
| 191 | 12/ | 12/ | 12/ | 722 | - 123 | 727 |
| Jan21/19 Aug13/19 | Feb4/21 | Jun7/21- | 0ct8/21 | Apr5/22 . | Oct19/23 | Jan21/19 Aug13/19 Feb4/21- Jun7/21- Oct8/21 |





Certificate L2367

Laboratory Sample No. Lab Number

: 05993827 Unique Number : 10722187 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0087068 Received : 30 Oct 2023

Diagnosed : 01 Nov 2023 Diagnostician : Sean Felton

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)

Kemp Quarries - Pryor Stone - Pryor

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