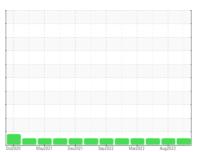


# **OIL ANALYSIS REPORT**



Sample Rating Trend





# KEMP QUARRIES / PRYOR STONE [67143] **ÖHT110**

Component **Hydraulic System** 

PETRO CANADA HYDREX A

# DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Pm3 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

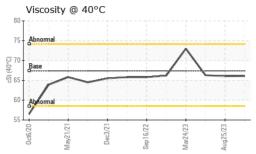
### **Fluid Condition**

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

| REX AW 68 (      | GAL)    | 0ct2020     | May2021 Dec2021 | Sep2022 Mar2023 Au | g2023       |             |  |
|------------------|---------|-------------|-----------------|--------------------|-------------|-------------|--|
| SAMPLE INFOR     | RMATION | method      | limit/base      | current            | history1    | history2    |  |
| Sample Number    |         | Client Info |                 | PCA0086253         | PCA0084254  | PCA0083991  |  |
| Sample Date      |         | Client Info |                 | 26 Oct 2023        | 25 Aug 2023 | 06 Jun 2023 |  |
| Machine Age      | hrs     | Client Info |                 | 28435              | 28083       | 27575       |  |
| Oil Age          | hrs     | Client Info |                 | 1340               | 988         | 480         |  |
| Oil Changed      |         | Client Info |                 | Oil Added          | Oil Added   | Oil Added   |  |
| Sample Status    |         |             |                 | NORMAL             | NORMAL      | NORMAL      |  |
| WEAR METAI       | LS      | method      | limit/base      | current            | history1    | history2    |  |
| Iron             | ppm     | ASTM D5185m | >20             | 0                  | 4           | 2           |  |
| Chromium         | ppm     | ASTM D5185m | >10             | 0                  | <1          | 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     |             | >10             | 0                  | <1          | 0           |  |
| Lead             | ppm     | ASTM D5185m | >10             | 0                  | 0           | 0           |  |
| Copper           | ppm     | ASTM D5185m |                 | <1                 | 2           | 2<br>0<br>0 |  |
| Tin              | ppm     | ASTM D5185m | >10             | 0                  | 0           |             |  |
| Vanadium         | ppm     | ASTM D5185m |                 | 0                  | 0           |             |  |
| Cadmium          | ppm     | ASTM D5185m |                 | 0                  | 0           | 0           |  |
| ADDITIVES        |         | method      | limit/base      | current            | history1    | history2    |  |
| Boron            | ppm     | ASTM D5185m | 0               | 0                  | 0           | 0           |  |
| Barium           | ppm     | ASTM D5185m | 0               | 0                  | 0           | 2           |  |
| Molybdenum       | ppm     | ASTM D5185m | 0               | 0                  | 0           | <1          |  |
| Manganese        | ppm     | ASTM D5185m | 0               | 0                  | <1          | 0           |  |
| Magnesium        | ppm     | ASTM D5185m | 0               | 0                  | 2           | <1          |  |
| Calcium          | ppm     | ASTM D5185m | 50              | 97                 | 64          | 60          |  |
| Phosphorus       | ppm     | ASTM D5185m | 330             | 349                | 345         | 331         |  |
| Zinc             | ppm     | ASTM D5185m | 430             | 447                | 447         | 435         |  |
| Sulfur           | ppm     | ASTM D5185m | 760             | 882                | 1050        | 961         |  |
| CONTAMINA        | NTS     | method      | limit/base      | current            | history1    | history2    |  |
| Silicon          | ppm     | ASTM D5185m | >20             | 0                  | <1          | <1          |  |
| Sodium           | ppm     | ASTM D5185m |                 | <1                 | 0           | 0           |  |
| Potassium        | ppm     | ASTM D5185m | >20             | 0                  | 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     | >0.1            | NEG                | NEG         | NEG         |  |
| Free Water       | scalar  | *Visual     |                 | NEG                | NEG         | NEG         |  |
| FLUID PROPE      | ERTIES  | method      | limit/base      | current            | history1    | history2    |  |
| Visc @ 40°C      | cSt     | ASTM D445   | 67.4            | 66.1               | 66.04       | 66.3        |  |



# **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 |
| GBAPHS        |        |            |          |          |          |

|            |            |           |          |            |            |          |                |         |  |                | Ü         |          |          |
|------------|------------|-----------|----------|------------|------------|----------|----------------|---------|--|----------------|-----------|----------|----------|
|            | GRA        | NPHS      |          |            |            |          |                |         |  |                |           |          |          |
|            | Iron       | (ppm)     |          |            |            |          | 20             | Lead    | (ppm)  |                |           |          |          |
|            | Severe     |           |          |            |            |          | 30 -<br>25 -   | Severe  |  |                |           |          |          |
|            | 10         |           |          |            |            |          | 20             |         |  |                |           |          |          |
| mdd        | Abnom      | al        |          |            |            | -        | 툂 15           |         |  |                |           |          |          |
|            | 5          |           |          |            |            |          | 10-            | Abnom   | nal  |                |           |          |          |
|            | 5          |           |          |            | _          | ~        | 5.             |         |  |                |           |          |          |
|            | 0ct6/20    | May21/21- | Dec3/21- | Sep16/22 - | Mar24/23 - | Aug25/23 | - 0-           | Oct6/20 | May21/21   | Dec3/21-       | Sep16/22. | Mar24/23 | Aug25/23 |
|            |            | _         |          | Sep        | Mar        | Aug      |                |         | _  |                | Sep       | Mará     | Aug      |
| 3          | Alum       | inum (p   | pm)      |            |            |          | 30             | Chro    | mium (p  | pm)            |           |          |          |
| 2          | Severe     |           |          |            |            | -        | 25 -           | Severe  |  |                |           |          |          |
|            | 20         |           |          |            |            |          | 20             |         |  |                |           |          |          |
| Md 1       | Abnorm     | al        |          |            |            |          | 튭 15·<br>10·   | Abnom   | nal  |                |           |          |          |
|            | 5          |           |          |            |            |          | 5.             |         |  |                |           |          |          |
|            | ر ا        |           | -        | 2          | 3          |          | - 0-           |         | -  | -              | 2         |          |          |
|            | 0ct6/20    | May21/21  | Dec3/21  | Sep16/22   | Mar24/23   | Aug25/23 |                | Oct6/20 | May21/21   | Dec3/21        | Sep16/22  | Mar24/23 | Aug25/23 |
|            | Сорр       | er (ppn   | n)       | S          | 2          | Ø        |                | Silico  | n (ppm)  |                | 03        | 2        | A        |
| 25         |            |           |          |            |            |          | 60-            | Severe  |  |                |           |          |          |
| 20         | Severe     |           |          |            |            |          | 50 ·           |         |  |                |           |          |          |
| udd .      |            |           |          |            |            |          | 틆30-           |         |  |                |           |          |          |
| 10         | Abnorm     | al        |          |            |            |          | 20             | Abnom   | nal  |                | -         |          |          |
| Ĺ          | 0          |           |          |            |            |          | 10             | \       |  |                |           |          |          |
|            | 0ct6/20    | 1/21      | Dec3/21- | Sep16/22-  | 4/23       | 5/23     | - 0-           | Oct6/20 | 1/21   | Dec3/21-       | Sep16/22  | 4/23     | 5/23     |
|            |            | May21/21. |          | Sep1       | Mar24/23   | Aug25/23 |                |         | May21/21   | Dec            | Sep1      | Mar24/23 | Aug25/23 |
| 8          | Visco      | sity @ 4  | 40°C     |            | ,          |          | 1600-          | Addit   | ives   |                |           |          |          |
|            | 5 - Abnorm | al        |          |            |            |          | 1400           | -       | calcium<br>phosphor  | ıs             |           |          |          |
| 0          |            |           |          |            |            |          | 1200 ·         | 1       | zinc   |                |           |          |          |
| cSt (40°C) | Base       |           |          |            |            |          | 툍 800-<br>600- | 1       |  |                |           |          |          |
|            | O Abnorm   | al        |          |            |            |          | 400            | 1       | THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM | NAME OF STREET |           |          |          |
| Ĺ          | 5          |           |          |            |            |          | 200            |         |  | _              |           |          |          |
|            | Oct6/20    | May21/21  | Dec3/21. | Sep16/22   | Mar24/23   | Aug25/23 |                | Oct6/20 | May21/21   | Dec3/21.       | Sep16/22  | Mar24/23 | Aug25/23 |
|            |            | ≥         |          | Š          | ≥          | Ā        |                |         | ≥  |                | Š         | ≥        | Ā        |



Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10740381 Test Package : MOB 1

: 06006619

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0086253

Received : 13 Nov 2023 Diagnosed : 15 Nov 2023 Diagnostician : Don Baldridge

Kemp Quarries - Pryor Stone - Pryor

1050 E 520 Rd Pryor, OK US 74361

Contact:

pryor@pryorstone.com

\* - 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:

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