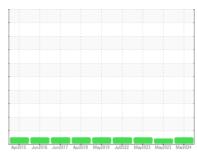


## **OIL ANALYSIS REPORT**

**Sample Rating Trend** 







# Machine Id **B687**Component

Hydraulic System

PHILLIPS 66 Powerflow NZ AW46 (--- QTS)

#### Dirtaitoolo

#### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

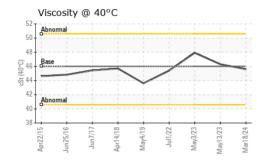
#### **Fluid Condition**

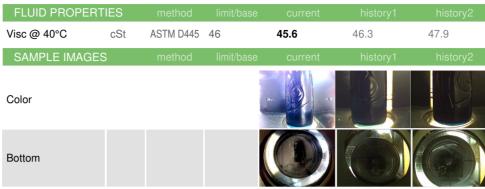
The condition of the oil is acceptable for the time in service.

|                  |        | Apr2015 Jul | 2016 Jun2017 Apr2018 | May/2019 Jul2022 May/2023 May/2 | 123 Mar <sup>2</sup> 024 |             |
|------------------|--------|-------------|----------------------|---------------------------------|--------------------------|-------------|
| SAMPLE INFORM    | MATION | method      | limit/base           | current                         | history1                 | history2    |
| Sample Number    |        | Client Info |                      | WC0891801                       | WC0789661                | WC0799385   |
| Sample Date      |        | Client Info |                      | 18 Mar 2024                     | 13 May 2023              | 03 May 2023 |
| Machine Age      | hrs    | Client Info |                      | 0                               | 0                        | 0           |
| Oil Age          | hrs    | Client Info |                      | 0                               | 0                        | 0           |
| Oil Changed      |        | Client Info |                      | N/A                             | N/A                      | N/A         |
| Sample Status    |        |             |                      | NORMAL                          | ABNORMAL                 | NORMAL      |
| CONTAMINATION    | 1      | method      | limit/base           | current                         | history1                 | history2    |
| Water            |        | WC Method   | >0.05                | NEG                             | NEG                      | NEG         |
| WEAR METALS      |        | method      | limit/base           | current                         | history1                 | history2    |
| Iron             | ppm    | ASTM D5185m | >20                  | 4                               | 5                        | 5           |
| Chromium         | ppm    | ASTM D5185m | >20                  | 3                               | 11                       | 4           |
| Nickel           | ppm    | ASTM D5185m | >20                  | 0                               | <1                       | 0           |
| Titanium         | ppm    | ASTM D5185m |                      | <1                              | 0                        | 0           |
| Silver           | ppm    | ASTM D5185m |                      | 0                               | 0                        | 0           |
| Aluminum         | ppm    | ASTM D5185m | >20                  | 2                               | <1                       | 0           |
| Lead             |        | ASTM D5185m | >20                  | 0                               | 0                        | 0           |
|                  | ppm    |             |                      |                                 |                          |             |
| Copper           | ppm    | ASTM D5185m | >20                  | 7                               | 10                       | 6           |
| Tin<br>          | ppm    | ASTM D5185m | >20                  | <1                              | 0                        | <1          |
| 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 |                      | 0                               | 0                        | 0           |
| Barium           | ppm    | ASTM D5185m |                      | 0                               | 1                        | 0           |
| Molybdenum       | ppm    | ASTM D5185m |                      | <1                              | <1                       | <1          |
| Manganese        | ppm    | ASTM D5185m |                      | 0                               | 0                        | <1          |
| Magnesium        | ppm    | ASTM D5185m |                      | 2                               | 3                        | 1           |
| Calcium          | ppm    | ASTM D5185m |                      | 49                              | 44                       | 50          |
| Phosphorus       | ppm    | ASTM D5185m |                      | 301                             | 309                      | 320         |
| Zinc             | ppm    | ASTM D5185m |                      | 378                             | 380                      | 391         |
| Sulfur           | ppm    | ASTM D5185m |                      | 1569                            | 1947                     | 1704        |
| CONTAMINANTS     |        | method      | limit/base           | current                         | history1                 | history2    |
| Silicon          | ppm    | ASTM D5185m | >15                  | 2                               | 1                        | <1          |
| Sodium           | ppm    | ASTM D5185m |                      | 0                               | 0                        | 0           |
| Potassium        | ppm    | ASTM D5185m | >20                  | 1                               | 0                        | 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                            | ▲ MODER                  | 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     | >0.05                | NEG                             | NEG                      | NEG         |
|                  |        |             | >0.00                |                                 |                          |             |
| Free Water       | scalar | *Visual     |                      | NEG                             | NEG                      | NEG         |



### **OIL ANALYSIS REPORT**





# **GRAPHS** Ferrous Alloys Non-ferrous Metals mdd Viscosity @ 40°C 52 cSt (40°C) 44 38





Certificate L2367

Laboratory Sample No.

Lab Number : 06122810 Unique Number : 10936961 Test Package : IND 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0891801

Received **Tested** Diagnosed

: 19 Mar 2024 : 20 Mar 2024

: 20 Mar 2024 - Wes Davis

**SUMIRIKO TENNESSEE INC** 150 HESTER LN TAZEWELL, TN US 37879

Contact: JEREMY COLLINS jcollins@us.sumiriko.com

T: (423)626-8805 F: (423)626-2065

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)