

# **PROBLEM SUMMARY**

Sample Rating Trend

ISO

MP-136

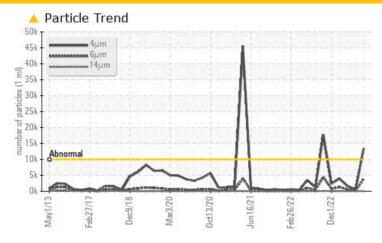
B33926 - PUMP VACUUM BUSCH 630 FIRE BRAISED (S/N C-3550)

Component **Pump** Fluid

PETRO CANADA PURITY FG SYNTHETIC 100 (4 GAL)

# v/2013 Feb2017 Dec2018 Mar2020

### **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

| PROBLEMATIC TEST RESULTS |                |           |                 |          |          |  |  |
|--------------------------|----------------|-----------|-----------------|----------|----------|--|--|
| Sample Status            |                |           | ATTENTION       | NORMAL   | NORMAL   |  |  |
| Particles >4μm           | ASTM D7647 >   | >10000    | <u> </u>        | 520      | 1578     |  |  |
| Particles >6µm           | ASTM D7647 >   | >2500     | <b>▲</b> 3851   | 201      | 536      |  |  |
| Oil Cleanliness          | ISO 4406 (c) > | >20/18/15 | <u>21/19/13</u> | 16/15/11 | 18/16/12 |  |  |

Customer Id: HORAUS Sample No.: WC0820530 Lab Number: 05902263 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

#### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

#### HISTORICAL DIAGNOSIS

#### 22 May 2023 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 28 Mar 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 27 Jan 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





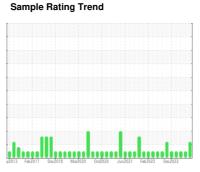
# **OIL ANALYSIS REPORT**

MP-136

B33926 - PUMP VACUUM BUSCH 630 FIRE BRAISED (S/N C-3550)

Pump

PETRO CANADA PURITY FG SYNTHETIC 100 (4 GAL)





# **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

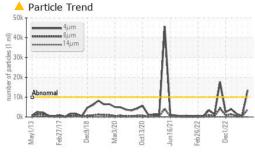
#### **Fluid Condition**

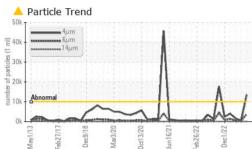
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

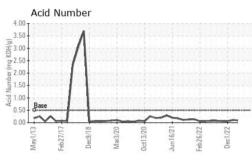
| SAMPLE INFORM<br>Sample Number  |          |  |   |                                 |                                    |                                    |
|---|----------|--|---|---------------------------------|------------------------------------|------------------------------------|
| Sample Number   | MATION   | method   | limit/base                              | current                         | history1                           | history2                           |
| Sample Multibel   |          | Client Info  |   | WC0820530                       | WC0799677                          | WC0781499                          |
| Sample Date   |          | Client Info  |   | 13 Jul 2023                     | 22 May 2023                        | 28 Mar 2023                        |
| Machine Age   | hrs      | Client Info  |   | 0                               | 0                                  | 0                                  |
| Oil Age   | hrs      | Client Info  |   | 0                               | 0                                  | 0                                  |
| Oil Changed   |          | Client Info  |   | Not Changd                      | Not Changd                         | Not Changd                         |
| Sample Status   |          |  |   | ATTENTION                       | NORMAL                             | NORMAL                             |
| WEAR METALS   |          | method   | limit/base                              | current                         | history1                           | history2                           |
| Iron  | ppm      | ASTM D5185m  | >90                                     | 0                               | 1                                  | 0                                  |
| Chromium  | ppm      | ASTM D5185m  | >5                                      | 0                               | 0                                  | 0                                  |
| Nickel  | ppm      | ASTM D5185m  | >5                                      | 0                               | 0                                  | <1                                 |
| Titanium  | ppm      | ASTM D5185m  | >3                                      | 0                               | 0                                  | 0                                  |
| Silver  | ppm      | ASTM D5185m  | >3                                      | 0                               | 0                                  | 0                                  |
| Aluminum  | ppm      | ASTM D5185m  | >7                                      | <1                              | <1                                 | 0                                  |
| Lead  | ppm      | ASTM D5185m  | >12                                     | 0                               | 0                                  | 0                                  |
| Copper  | ppm      | ASTM D5185m  | >30                                     | <1                              | 0                                  | <1                                 |
| Tin   | ppm      | ASTM D5185m  | >9                                      | 0                               | 0                                  | 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  |   | 0                               | 0                                  | 0                                  |
| Barium  | ppm      | ASTM D5185m  |   | 0                               | 0                                  | 0                                  |
| Molybdenum  | ppm      | ASTM D5185m  |   | 0                               | 0                                  | 0                                  |
| Manganese   | ppm      | ASTM D5185m  |   | 0                               | <1                                 | <1                                 |
| Magnesium   | ppm      | ASTM D5185m  |   | 0                               | <1                                 | 2                                  |
| Calcium   | ppm      | ASTM D5185m  |   | 0                               | 0                                  | <1                                 |
| Phosphorus  | ppm      | ASTM D5185m  |   | 348                             | 416                                | 167                                |
| Zinc  | ppm      | ASTM D5185m  |   | 0                               | 0                                  | 0                                  |
| Sulfur  | ppm      | ASTM D5185m  |   | 960                             | 1198                               | 425                                |
| CONTAMINANTS  | <b>;</b> | method   | limit/base                              | current                         | history1                           | history2                           |
| Silicon   | ppm      | ASTM D5185m  | >60                                     | 2                               | 4                                  | 6                                  |
| Sodium  | ppm      | ASTM D5185m  |   | 0                               | <1                                 | <1                                 |
|   |          |  |   | · ·                             | <u> </u>                           |                                    |
| Potassium   | ppm      | ASTM D5185m  | >20                                     | <1                              | <1                                 | 1                                  |
| Potassium  FLUID CLEANLIN   |          | ASTM D5185m method   | >20<br>limit/base                       | <1                              |                                    | 1                                  |
| FLUID CLEANLIN<br>Particles >4μm  |          | method ASTM D7647  | limit/base >10000                       | <1 current 13494                | <1<br>history1<br>520              | 1<br>history2<br>1578              |
| FLUID CLEANLIN<br>Particles >4μm<br>Particles >6μm  |          | method ASTM D7647 ASTM D7647   | limit/base >10000 >2500                 | <1 current  13494  3851         | <1<br>history1<br>520<br>201       | 1<br>history2                      |
| FLUID CLEANLIN<br>Particles >4μm<br>Particles >6μm  |          | method ASTM D7647 ASTM D7647 ASTM D7647  | limit/base >10000                       | <1 current  13494 3851 76       | <1<br>history1<br>520<br>201<br>13 | 1<br>history2<br>1578<br>536<br>22 |
| FLUID CLEANLIN<br>Particles >4μm<br>Particles >6μm<br>Particles >14μm<br>Particles >21μm  |          | method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647                             | limit/base >10000 >2500                 | <1 current  13494  3851         | <1<br>history1<br>520<br>201       | 1<br>history2<br>1578<br>536       |
| FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm  |          | method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647                  | limit/base >10000 >2500 >320            | <1 current  13494 3851 76 8 0   | <1<br>history1<br>520<br>201<br>13 | 1 history2 1578 536 22 3 0         |
| FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm  |          | method  ASTM D7647  ASTM D7647  ASTM D7647  ASTM D7647  ASTM D7647  ASTM D7647 | limit/base >10000 >2500 >320 >80 >20 >4 | <1 current  13494 3851 76 8 0 0 | <1 history1 520 201 13 2 0 0       | 1 history2 1578 536 22 3 0 0 0     |
| FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm  |          | method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647                  | limit/base >10000 >2500 >320 >80 >20    | <1 current  13494 3851 76 8 0   | <1 history1 520 201 13 2 0         | 1 history2 1578 536 22 3 0         |
| Potassium  FLUID CLEANLIN  Particles >4µm  Particles >6µm  Particles >14µm  Particles >21µm  Particles >38µm  Particles >71µm  Oil Cleanliness  FLUID DEGRADA | NESS     | method  ASTM D7647  ASTM D7647  ASTM D7647  ASTM D7647  ASTM D7647  ASTM D7647 | limit/base >10000 >2500 >320 >80 >20 >4 | <1 current  13494 3851 76 8 0 0 | <1 history1 520 201 13 2 0 0       | 1 history2 1578 536 22 3 0 0 0     |

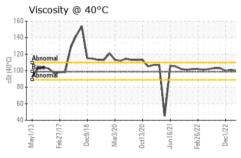


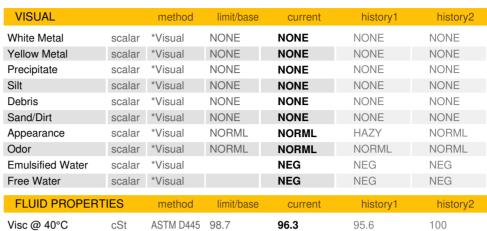
## **OIL ANALYSIS REPORT**









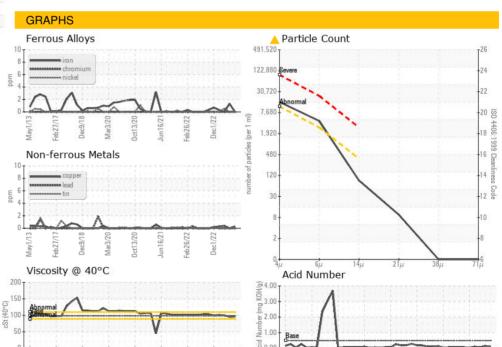


| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|               |        |            |         |          |          |

**Bottom** 

Color









Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WC0820530 : 05902263 : 10563619

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jul 2023 Diagnosed

: 21 Jul 2023 Diagnostician : Don Baldridge

Dec1/22

Test Package : IND 2 ( Additional Tests: PrtCount ) 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)

**HORMEL FOODS - AUSTIN** 

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F: (507)437-9805

Report Id: HORAUS [WUSCAR] 05902263 (Generated: 07/21/2023 10:17:18) Rev: 1

Contact/Location: RYAN LOWE - HORAUS