

## **OIL ANALYSIS REPORT**

Particles >71µm

**Oil Cleanliness** 

Acid Number (AN)

FLUID DEGRADATION

ASTM D7647 >4

mg KOH/g ASTM D8045

ISO 4406 (c) >--/18/15

0

0.19

19/17/14

Sample Rating Trend

NORMAL

# **NIAGARA WATER BRIGHAM** H1 HUSKY

Component **Hydraulic System** NOT GIVEN (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### Fluid Condition

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

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|-----------------|--------|-------------|------------|-------------|-------------|----------|
|                 |        |             |            |             |             |          |
|                 |        |             |            |             |             |          |
|                 |        |             |            |             |             |          |
|                 |        |             | 0ct2022    | Feb2023     |             |          |
| SAMPLE INFORM   | MATION | method      | limit/base | current     | history1    | history2 |
| Sample Number   |        | Client Info |            | PTK0004264  | PTK0004019  |          |
| Sample Date     |        | Client Info |            | 10 Feb 2023 | 28 Oct 2022 |          |
| Machine Age     | hrs    | Client Info |            | 0           | 0           |          |
| Oil Age         | hrs    | Client Info |            | 0           | 0           |          |
| Oil Changed     |        | Client Info |            | N/A         | N/A         |          |
| Sample Status   |        |             |            | NORMAL      | NORMAL      |          |
| CONTAMINATIO    | N      | method      | limit/base | current     | history1    | history2 |
| Water           |        | WC Method   | >0.1       | NEG         | NEG         |          |
| WEAR METALS     |        | method      | limit/base | current     | history1    | history2 |
| Iron            | ppm    | ASTM D5185m | >20        | 22          | 21          |          |
| Chromium        | ppm    | ASTM D5185m | >10        | <1          | <1          |          |
| Nickel          | ppm    | ASTM D5185m | >10        | 0           | 1           |          |
| Titanium        | ppm    | ASTM D5185m |            | 0           | 0           |          |
| Silver          | ppm    | ASTM D5185m |            | 0           | 0           |          |
| Aluminum        | ppm    | ASTM D5185m | >10        | 0           | 0           |          |
| _ead            | ppm    | ASTM D5185m | >10        | 0           | <1          |          |
| Copper          | ppm    | ASTM D5185m | >75        | 1           | 1           |          |
| Tin             | ppm    | ASTM D5185m | >10        | 0           | <1          |          |
| Vanadium        | ppm    | ASTM D5185m |            | 0           | 0           |          |
| Cadmium         | ppm    | ASTM D5185m |            | 0           | 0           |          |
| ADDITIVES       |        | method      | limit/base | current     | history1    | history2 |
| Boron           | ppm    | ASTM D5185m |            | 0           | 0           |          |
| Barium          | ppm    | ASTM D5185m |            | 0           | 0           |          |
| Nolybdenum      | ppm    | ASTM D5185m |            | 0           | 0           |          |
| Vanganese       | ppm    | ASTM D5185m |            | <1          | <1          |          |
| Vagnesium       | ppm    | ASTM D5185m |            | 0           | <1          |          |
| Calcium         | ppm    | ASTM D5185m |            | 108         | 116         |          |
| Phosphorus      | ppm    | ASTM D5185m |            | 422         | 454         |          |
| Zinc            | ppm    | ASTM D5185m |            | <1          | 7           |          |
| Sulfur          | ppm    | ASTM D5185m |            | 1373        | 1783        |          |
| CONTAMINANTS    | 5      | method      | limit/base | current     | history1    | history2 |
| Silicon         | ppm    | ASTM D5185m | >20        | 2           | 1           |          |
| Sodium          | ppm    | ASTM D5185m |            | <1          | 3           |          |
| Potassium       | ppm    | ASTM D5185m |            | 0           | <1          |          |
| FLUID CLEANLIN  | VESS   | method      | limit/base | current     | history1    | history2 |
| Particles >4µm  |        | ASTM D7647  |            | 3194        | 911         |          |
| Particles >6µm  |        | ASTM D7647  |            | 1103        | 205         |          |
| Particles >14µm |        | ASTM D7647  | >320       | 117         | 18          |          |
| Particles >21µm |        | ASTM D7647  |            | 21          | 4           |          |
| Particles >38µm |        | ASTM D7647  | >20        | 2           | 0           |          |
| Jortiolog 71 um |        | ACTM D7647  |            | 0           | 0           |          |

Report Id: NIABRI [WUSCAR] 05769432 (Generated: 12/11/2023 13:03:52) Rev: 1

Contact/Location: REX COLLEDGE - NIABRI

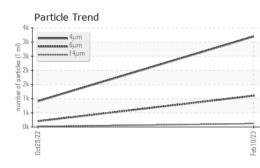
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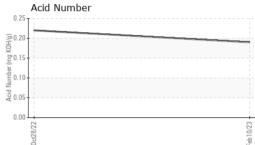
17/15/11

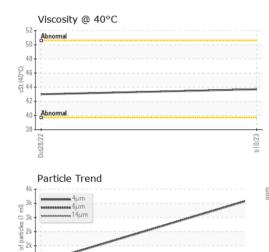
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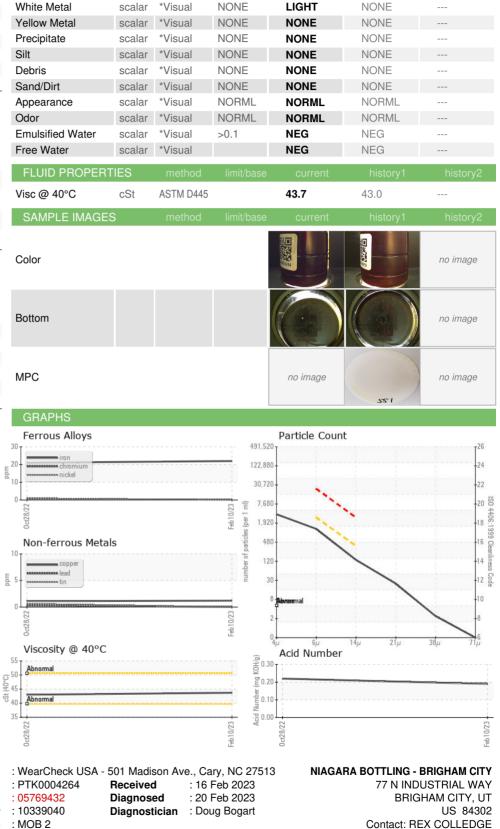


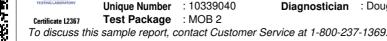




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Laboratory

Sample No.

Lab Number

\* - 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)

Contact/Location: REX COLLEDGE - NIABRI

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