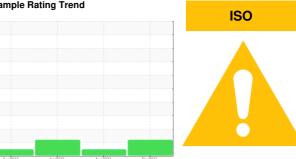


# **PROBLEM SUMMARY**

# Sample Rating Trend



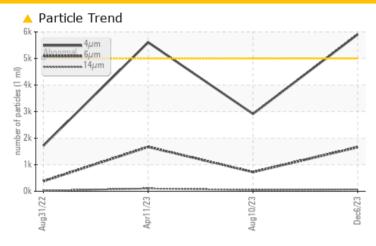
# MAIN HPU

Component

**Hydraulic System** 

CHEVRON RANDO HD 46 (--- LTR)

# **COMPONENT CONDITION SUMMARY**



# RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST	RESULTS				
Sample Status			ATTENTION	NORMAL	ATTENTION
Particles >4µm	ASTM D7647	>5000	<b>5908</b>	2913	<u></u> 5608
Particles >6µm	ASTM D7647	>1300	<b>1661</b>	722	<u> </u>
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>20/18/13</b>	19/17/13	A 20/18/14

Customer Id: BREABB Sample No.: WC0732069 Lab Number: 02601842 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

## **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

# HISTORICAL DIAGNOSIS

## 10 Aug 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### 11 Apr 2023 Diag: Wes Davis

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

# view report

### 31 Aug 2022 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



# **MAIN HPU**

Component

**Hydraulic System** 

CHEVRON RANDO HD 46 (--- LTR)

# **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component. 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 a light amount of silt (particulates < 14 microns in size) present in the oil.

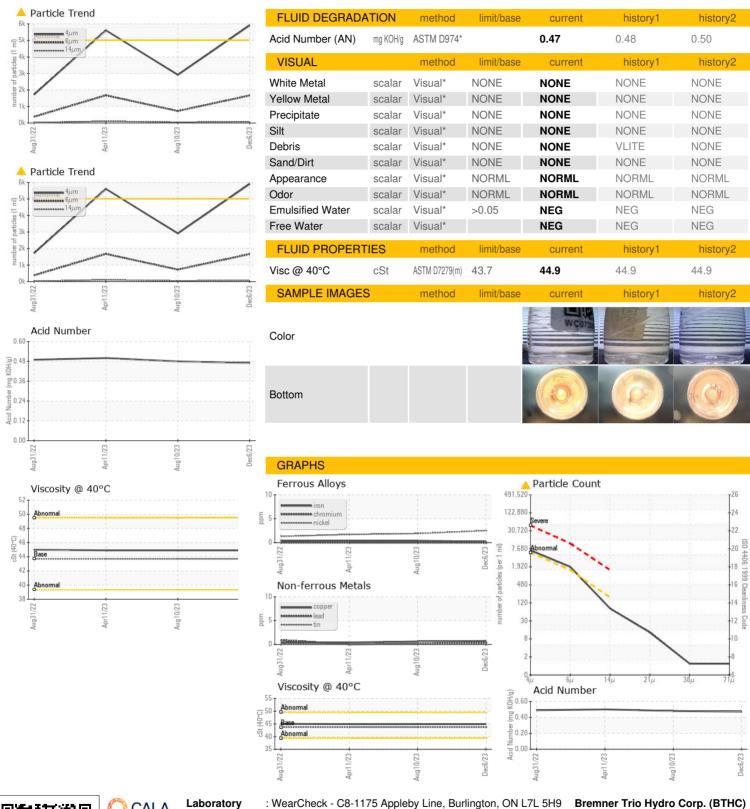
# **Fluid Condition**

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

		Aug202	2 Apr2023	Aug2023 D	ec2023	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0732069	WC0732082	WC0732081
Sample Date		Client Info		06 Dec 2023	10 Aug 2023	11 Apr 2023
Machine Age	hrs	Client Info		9088	7995	5434
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	ATTENTION
CONTAMINATION		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 D5185(m)	>30	<1	<1	<1
Chromium	ppm	ASTM D5185(m)	>2	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	2	2	2
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>2	0	<1	0
Lead	ppm	ASTM D5185(m)	>10	<1	<1	0
Copper	ppm	ASTM D5185(m)	>25	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		2	2	2
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		<1	<1	<1
Calcium	ppm	ASTM D5185(m)		97	97	103
Phosphorus	ppm	ASTM D5185(m)		321	348	364
Zinc	ppm	ASTM D5185(m)		364	365	369
Sulfur	ppm	ASTM D5185(m)		660	659	701
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<1	<1	<1
Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>△</b> 5908	2913	▲ 5608
Particles >6µm		ASTM D7647	>1300	<u> </u>	722	<u>▲</u> 1672
Particles >14µm		ASTM D7647	>160	69	47	104
Particles >21µm		ASTM D7647	>40	11	13	21
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647		1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/18/13	19/17/13	<u>^</u> 20/18/14
:00:10\ Pay: 1		(-)			contion: Dyon I	



# OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

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

: WC0732069 02601842 : 5694927

: IND 2

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Received Diagnosed Diagnostician

: 08 Dec 2023 : 11 Dec 2023 : Kevin Marson **Bremner Trio Hydro Corp. (BTHC)** 32125 Sorrento Avenue

Abbotsford, BC CA V2T 5B7 Contact: Ryan Jones

rjones@cclinfrastructure.com T:

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

F: