

# **PROBLEM SUMMARY**

# Sample Rating Trend

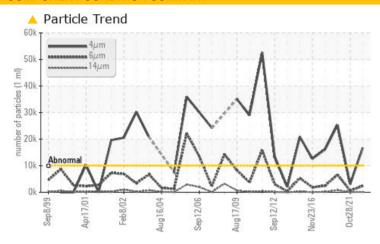
ISO

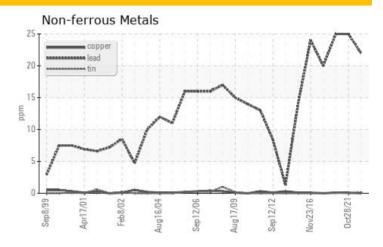
# Wachine Id USL - TURBINE BEARING (S/N 61787) Component

Bearing

PETRO CANADA TURBOFLO R&O 46 (410 LTR)

## **COMPONENT CONDITION SUMMARY**





## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TE	EST RESULTS				
Sample Status			ATTENTION	NORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>10000	<b>16709</b>	3041	<u>\$\text{25334}\$</u>
Oil Cleanliness	ISO 4406 (c)	>20/18/14	21/18/14	19/16/13	A 22/20/17

Customer Id: NEWMIL Sample No.: WC0524895 Lab Number: 02556544 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.

## HISTORICAL DIAGNOSIS

28 Oct 2021 Diag: Kevin Marson





Resample at the next service interval to monitor. 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 Aug 2021 Diag: Kevin Marson





11 Mar 2018 Diag: Kevin Marson

ISO



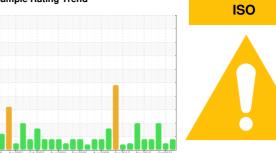
We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



USL - TURBINE BEARING (S/N 61787)

**Bearing** 

PETRO CANADA TURBOFLO R&O 46 (410 LTR)

# DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### 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.

LTR)		p 1999 Apr20	01 Fab2002 Aug2004 Se	pp2006 Aug2009 Sep2012 Nov20	0 de 2021	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0524895	WC0464394	WC0464389
Sample Date		Client Info		20 Apr 2023	28 Oct 2021	11 Aug 2021
Machine Age	hrs	Client Info		118424	0	0
Oil Age	hrs	Client Info		118424	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>20	<1	0	0
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	<1	<1
- itanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	0	0	0
_ead	ppm	ASTM D5185(m)	>20	22	25	25
Copper	ppm	ASTM D5185(m)	>20	0	<1	<1
- īn	ppm	ASTM D5185(m)	>20	<1	0	<1
Antimony	ppm	ASTM D5185(m)		<1	0	0
/anadium	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)		0	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		0	0	0
Calcium	ppm	ASTM D5185(m)	0	0	<1	<1
Phosphorus	ppm	ASTM D5185(m)	3	6	4	6
Zinc	ppm	ASTM D5185(m)	0	3	<1	4
Sulfur	ppm	ASTM D5185(m)		152	166	157
ithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	<b>;</b>	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	5	0	0
Sodium	ppm	ASTM D5185(m)		0	<1	0
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>16709</b>	3041	<b>△</b> 25334
Particles >6µm		ASTM D7647	>2500	2417	574	<u></u> 6640
Particles >14µm		ASTM D7647	>160	130	42	<u></u> ∧ 782
Particles >21µm		ASTM D7647	>40	30	11	<u>△</u> 252
Particles >38µm		ASTM D7647	>10	0	0	<b>▲</b> 32
Particles >71µm		ASTM D7647	>3	0	0	5
Oil Cleanliness		ISO 4406 (c)	>20/18/14	<u> </u>	19/16/13	<u>22/20/17</u>
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

mg KOH/g ASTM D974\* 0.12

Acid Number (AN)

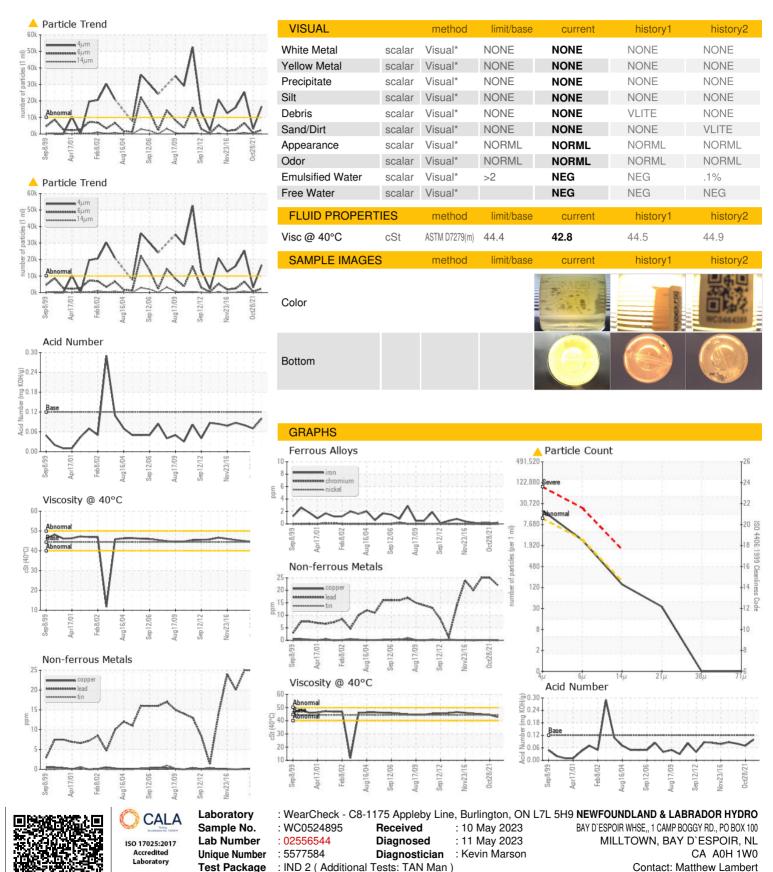
0.10

0.08

Submitted By: Earl MacNeil



# **OIL ANALYSIS REPORT**



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

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.

matthewlambert@nlh.nl.ca

T: (709)882-3126

F: (709)882-3161