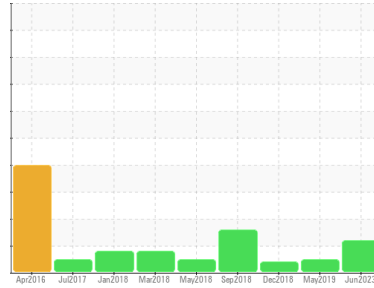
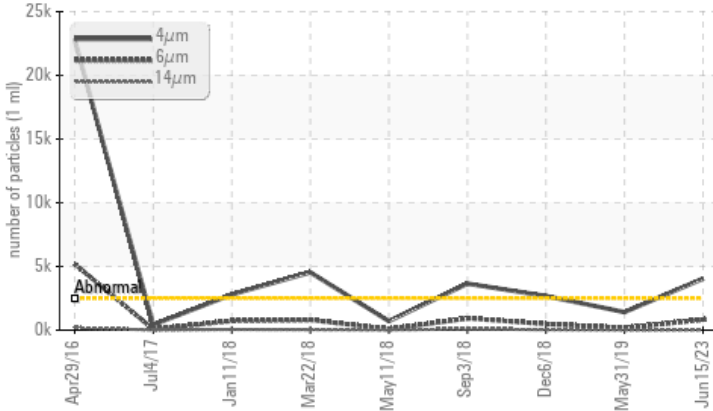


Area
Compania Aceitera Asrialim
 Machine Id
TRIVENI TURBINA TRIVENI
 Component
Turbine
 Fluid
PETRO CANADA SUPER TURBOFLO 46 (1845 LTR)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	NORMAL	ATTENTION
Particles >4µm	ASTM D7647	>2500	▲ 4041	1417	▲ 2679
Particles >6µm	ASTM D7647	>640	▲ 825	175	488
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 19/17/11	18/15/10	▲ 19/16/12

Customer Id: INDALA
 Sample No.: PC0076600
 Lab Number: 02568236
 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

31 May 2019 Diag: Bill Quesnel

NORMAL



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 water content is negligible. 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.

[view report](#)



06 Dec 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 water content is negligible. The condition of the oil is acceptable for the time in service.

[view report](#)



03 Sep 2018 Diag: Bill Quesnel

ISO

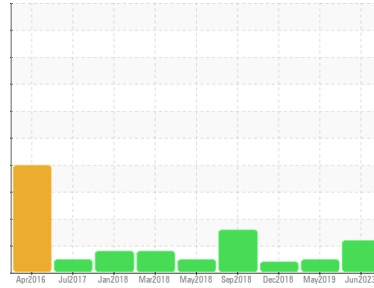


We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid.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

[view report](#)



Area
Compania Aceitera Asrialim
 Machine Id
TRIVENI TURBINA TRIVENI
 Component
Turbine
 Fluid
PETRO CANADA SUPER TURBOFLO 46 (1845 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. The water content is negligible.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number	Client Info			PC0076600	PC411315	PC411264
Sample Date	Client Info			15 Jun 2023	31 May 2019	06 Dec 2018
Machine Age	yrs	Client Info		1	11000	16903
Oil Age	yrs	Client Info		0	8381	0
Oil Changed	Client Info			N/A	Changed	N/A
Sample Status				ATTENTION	NORMAL	ATTENTION

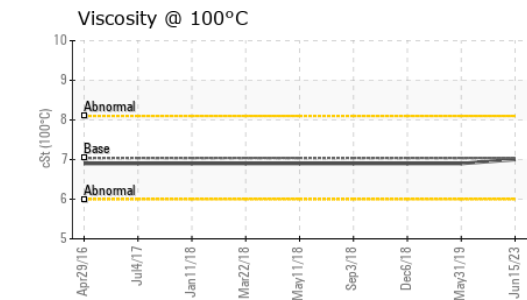
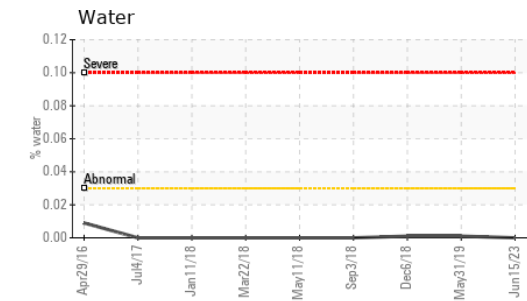
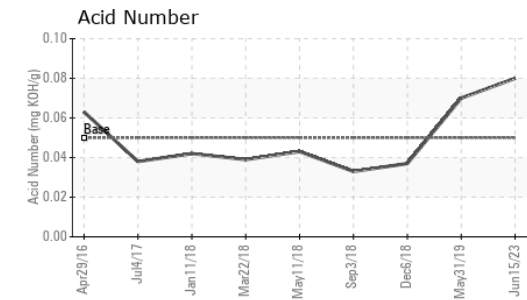
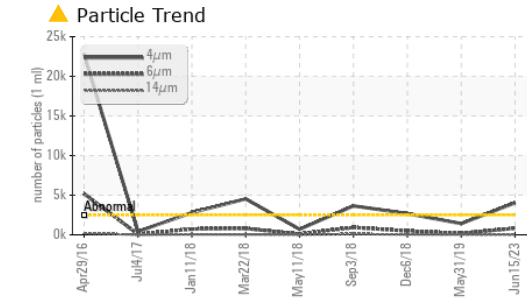
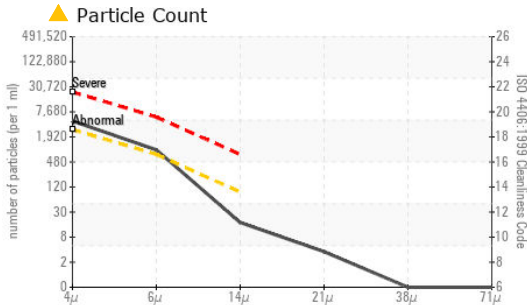
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m)	>15	1	<1	3
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<1	0	0
Lead	ppm	ASTM D5185(m)		0	0	<1
Copper	ppm	ASTM D5185(m)	>5	<1	<1	2
Tin	ppm	ASTM D5185(m)	>5	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	<1

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185(m)	0	0	0	0
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	0	<1
Calcium	ppm	ASTM D5185(m)	0	<1	<1	<1
Phosphorus	ppm	ASTM D5185(m)	120	284	238	239
Zinc	ppm	ASTM D5185(m)	.7	8	4	7
Sulfur	ppm	ASTM D5185(m)	0	721	613	714
Lithium	ppm	ASTM D5185(m)		<1	0	0

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)	>15	2	<1	2
Sodium	ppm	ASTM D5185(m)		<1	0	0
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Water	%	ASTM D6304*	>0.03	0.00	0.001	0.001
ppm Water	ppm	ASTM D6304*	>300	0.00	12.4	16.5

FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>2500	▲ 4041	1417	▲ 2679
Particles >6µm		ASTM D7647	>640	▲ 825	175	488
Particles >14µm		ASTM D7647	>80	15	10	35
Particles >21µm		ASTM D7647	>20	3	4	10
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ 19/17/11	18/15/10	▲ 19/16/12

OIL ANALYSIS REPORT

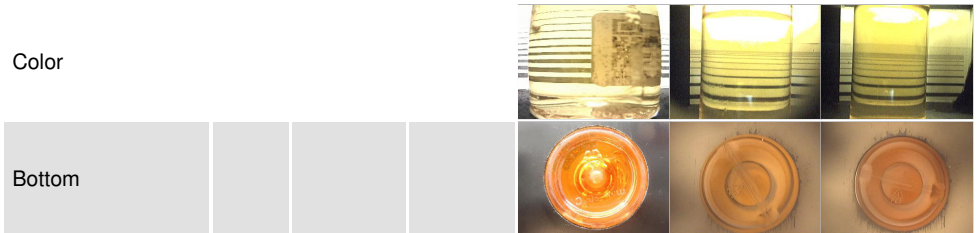


FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.05	0.08	0.070	0.037

VISUAL		method	limit/base	current	history 1	history 2
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	NONE	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*	>0.03	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	46.6	46	46.0	46.1
Visc @ 100°C	cSt	ASTM D7279(m)	7.04	7	6.9	6.9
Viscosity Index (VI)	Scale	ASTM D2270*	107	109	105	105

SAMPLE IMAGES



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **INDUSTRIAS del PETROLEO CANAD. SA**
Sample No. : PC0076600 **Received** : 06 Jul 2023 Contiguo FANAL, frente a la Autopista Bernardo Soto
Lab Number : **02568236** **Diagnosed** : 07 Jul 2023 Grecia, A
Unique Number : 5605282 **Diagnostician** : Kevin Marson Costa Rica
Test Package : IND 2 (Additional Tests: KV100, VI) Contact: Erick Bogantes

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.

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