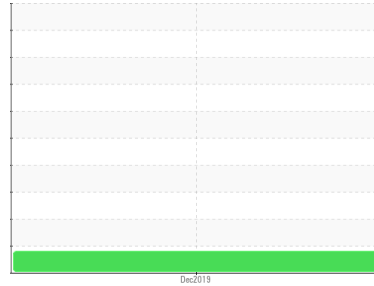




PROBLEM SUMMARY

Sample Rating Trend



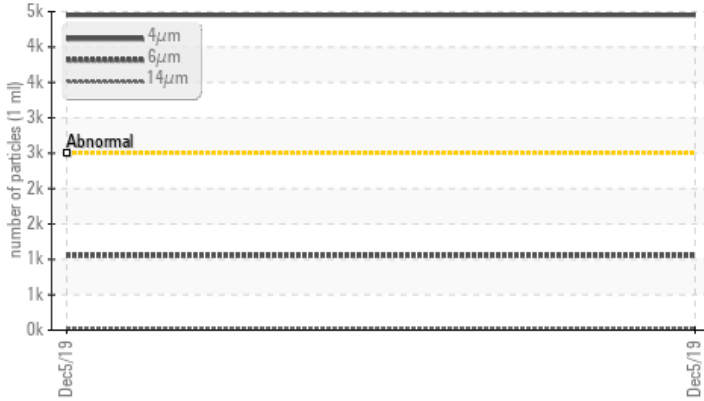
ISO



Machine Id
PNETECH CAMPTUR1LUB
 Component
Turbine
 Fluid
PETRO CANADA PREMIUM R&O 32 (--- LTR)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



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	---	---
Particles >4µm	ASTM D7647	>2500	▲ 4452	---	---
Particles >6µm	ASTM D7647	>640	▲ 1054	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 19/17/12	---	---

Customer Id: PET412PET
 Sample No.: WC0373484
 Lab Number: 02325508
 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

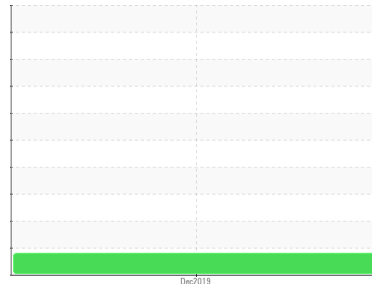
Action	Status	Date	Done By	Description
Change Filter	MISSED	Dec 24 2020	?	We recommend you service the filters on this component.
Information Required	MISSED	Dec 24 2020	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
PNETECH CAMPTUR1LUB

Component
Turbine

Fluid
PETRO CANADA PREMIUM R&O 32 (--- 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. 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	history1	history2
Sample Number	Client Info	WC0373484	---	---
Sample Date	Client Info	05 Dec 2019	---	---
Machine Age	hrs Client Info	194203	---	---
Oil Age	hrs Client Info	71763	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ATTENTION	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>15	<1	---	---
Chromium ppm ASTM D5185(m)	>4	0	---	---
Nickel ppm ASTM D5185(m)	>2	<1	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		0	---	---
Aluminum ppm ASTM D5185(m)	>10	0	---	---
Lead ppm ASTM D5185(m)		0	---	---
Copper ppm ASTM D5185(m)	>5	<1	---	---
Tin ppm ASTM D5185(m)	>5	0	---	---
Antimony ppm ASTM D5185(m)		<1	---	---
Vanadium ppm ASTM D5185(m)		0	---	---
Beryllium ppm ASTM D5185(m)		0	---	---
Cadmium ppm ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)		<1	---	---
Barium ppm ASTM D5185(m)		0	---	---
Molybdenum ppm ASTM D5185(m)		0	---	---
Manganese ppm ASTM D5185(m)		0	---	---
Magnesium ppm ASTM D5185(m)		<1	---	---
Calcium ppm ASTM D5185(m)		<1	---	---
Phosphorus ppm ASTM D5185(m)	0	2	---	---
Zinc ppm ASTM D5185(m)		<1	---	---
Sulfur ppm ASTM D5185(m)	0	16	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

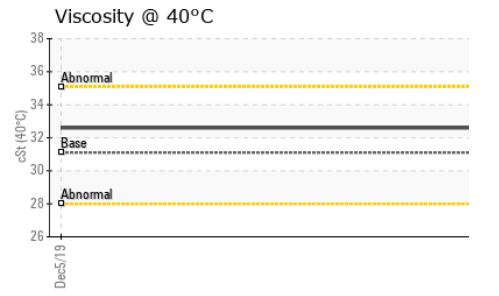
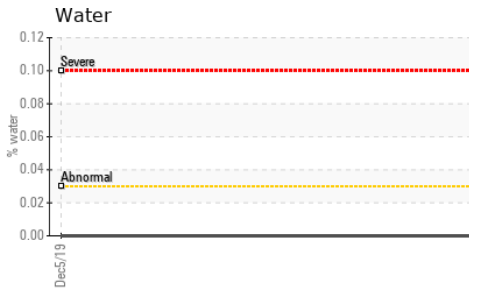
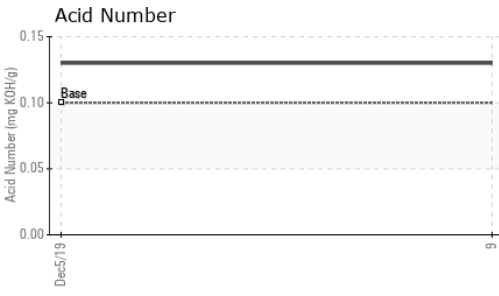
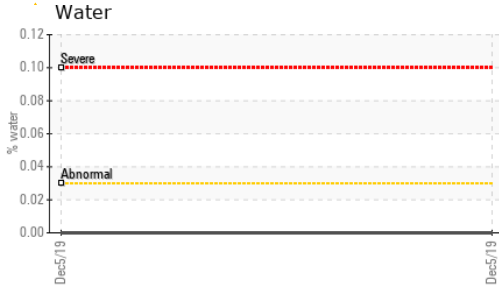
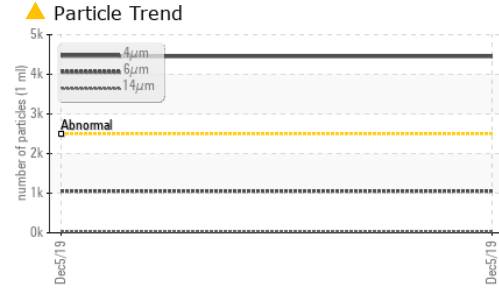
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>15	<1	---	---
Sodium ppm ASTM D5185(m)		<1	---	---
Potassium ppm ASTM D5185(m)	>20	<1	---	---
Water % ASTM D6304*	>0.03	0.00	---	---
ppm Water ppm ASTM D6304*	>300	0.00	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>2500	▲ 4452	---	---
Particles >6µm ASTM D7647	>640	▲ 1054	---	---
Particles >14µm ASTM D7647	>80	31	---	---
Particles >21µm ASTM D7647	>20	8	---	---
Particles >38µm ASTM D7647	>4	0	---	---
Particles >71µm ASTM D7647	>3	0	---	---
Oil Cleanliness ISO 4406 (c)	>18/16/13	▲ 19/17/12	---	---



OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.10	0.130	---	---

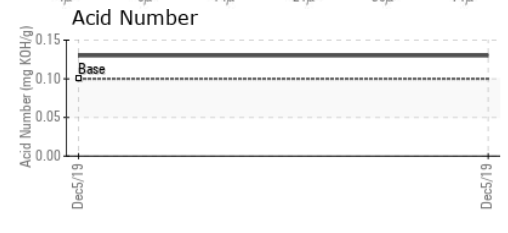
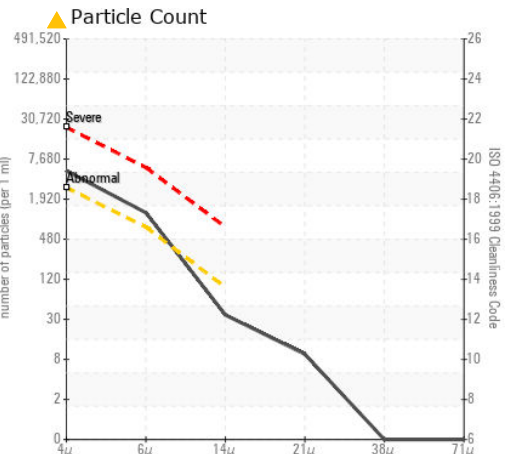
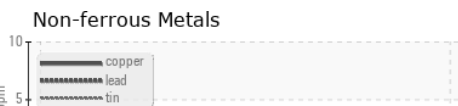
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.03	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.1	32.6	---	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0373484 **Received** : 06 Dec 2019
Lab Number : **02325508** **Diagnosed** : 09 Dec 2019
Unique Number : 4968806 **Diagnostician** : Kevin Marson
Test Package : IND 2

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 CA K9L 1P8
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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.