



# PROBLEM SUMMARY

Sample Rating Trend

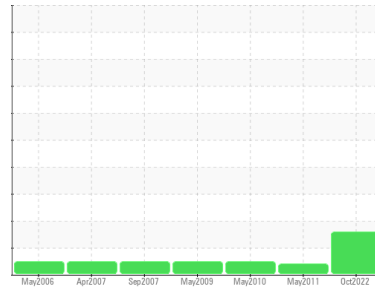
VISCOSITY



Machine Id  
**WES GG GAS GENERATOR**

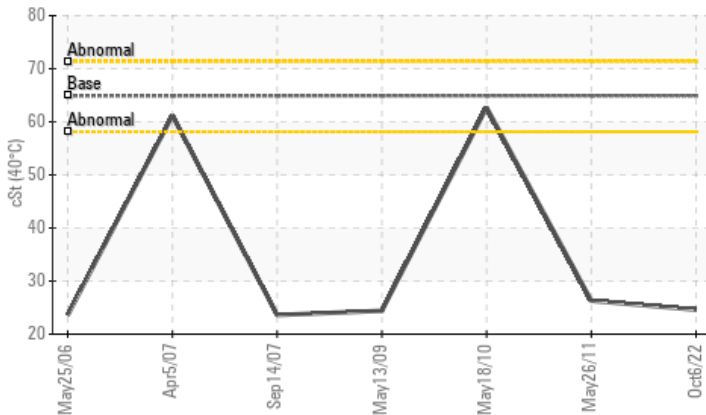
Component  
**Lube System**

Fluid  
**PETRO CANADA TURBOFLO R&O 68 (--- LTR)**

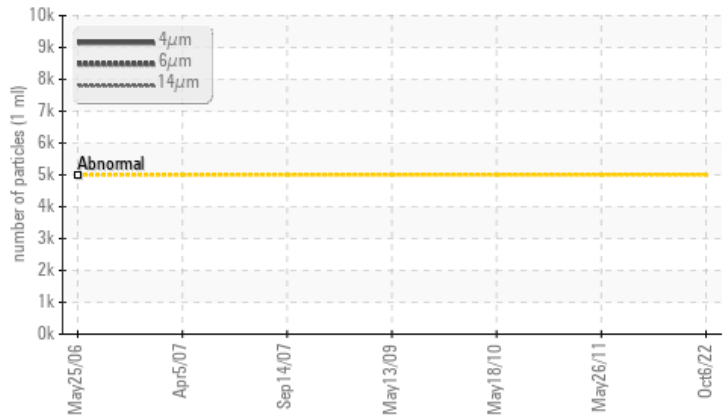


## COMPONENT CONDITION SUMMARY

### ▲ Viscosity @ 40°C



### ▲ Particle Trend



## RECOMMENDATION

The component was not specified so we have determined that this is a lube system based on the fluid type in use. Please specify the correct component type on your next sample. 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			ABNORMAL	ABNORMAL	NORMAL
Particles >4µm	ASTM D7647	>5000	▲ 9692	---	---
Particles >6µm	ASTM D7647	>1300	▲ 1528	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/18/14	---	---
Visc @ 40°C	cSt	ASTM D7279(m) 64.9	▲ 24.6	▲ 26.3	62.7

Customer Id: NEWSTJ  
Sample No.: WC0445159  
Lab Number: 02517590  
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](mailto:Kevin.Marson@wearcheck.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Alert	---	---	?	The component was not specified so we have determined that this is a lube system based on the fluid type in use. Please specify the correct component type on your next sample.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## HISTORICAL DIAGNOSIS

### 26 May 2011 Diag: Kevin Marson

#### VISCOSITY



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 no indication of any contamination in the component (unconfirmed). The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil.

view report



### 18 May 2010 Diag: Kevin Marson

#### NORMAL



Lack of required information limits accuracy of diagnosis, however, Resample at the next service interval to monitor. Please provide more complete information on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the component. The condition of oil is suitable for further service.

view report



### 13 May 2009 Diag:

#### 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. There is no indication of any contamination in the component. The condition of oil is suitable for further service.

view report





# OIL ANALYSIS REPORT

Sample Rating Trend

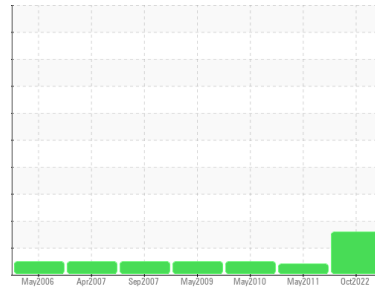
VISCOSITY



Machine Id  
**WES GG GAS GENERATOR**

Component  
**Lube System**

Fluid  
**PETRO CANADA TURBOFLO R&O 68 (--- LTR)**



## DIAGNOSIS

### Recommendation

The component was not specified so we have determined that this is a lube system based on the fluid type in use. Please specify the correct component type on your next sample. 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

Viscosity of sample indicates oil is within ISO 22 range, advise investigate. 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		<b>WC0445159</b>	WC759383	WC759379
Sample Date	Client Info		<b>06 Oct 2022</b>	26 May 2011	18 May 2010
Machine Age	hrs	Client Info	<b>633</b>	633	363
Oil Age	hrs	Client Info	<b>0</b>	0	363
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.05	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	<1
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	1	0
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	<1
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>0</b>	0	0
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>0</b>	2	<1
Calcium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Phosphorus	ppm	ASTM D5185(m)	4	<b>2733</b>	2665	8
Zinc	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Sulfur	ppm	ASTM D5185(m)		<b>88</b>	0	13
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---

## CONTAMINANTS

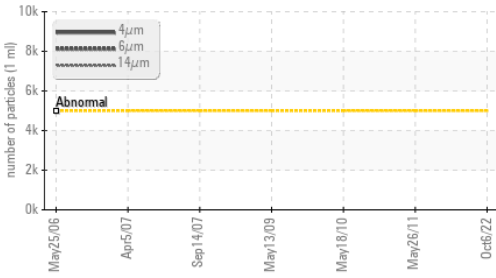
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	<b>4</b>	3	1
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0

## FLUID CLEANLINESS

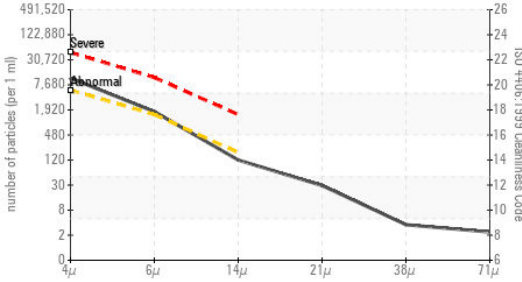
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 9692</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>▲ 1528</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>106</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>26</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>3</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>2</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 20/18/14</b>	---	---

# OIL ANALYSIS REPORT

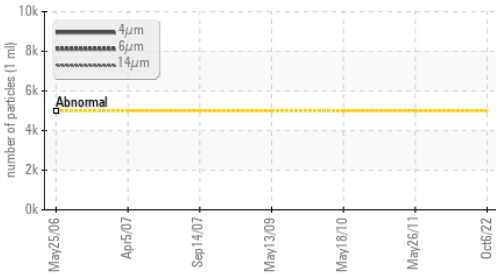
## Particle Trend



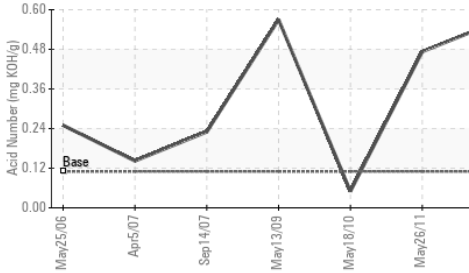
## Particle Count



## Particle Trend



## Acid Number



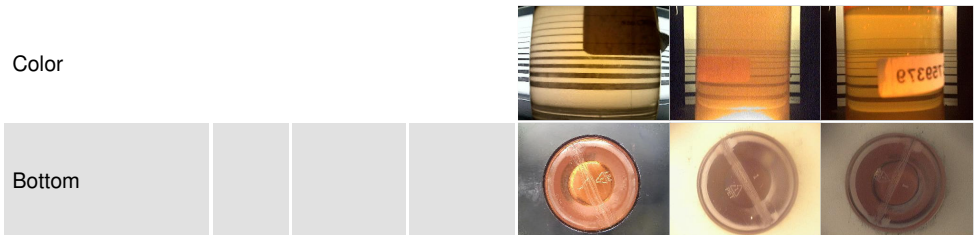
## FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN) mg KOH/g	ASTM D974*	0.11	<b>0.56</b>	▲ 0.473	0.05	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

## FLUID PROPERTIES

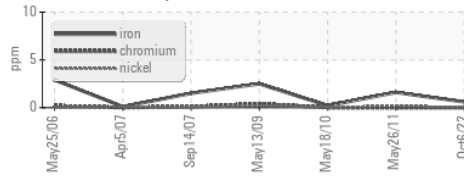
method	limit/base	current	history1	history2	
Visc @ 40°C cSt	ASTM D7279(m)	64.9	▲ <b>24.6</b>	▲ 26.3	62.7

## SAMPLE IMAGES

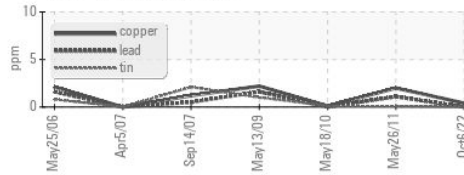


## GRAPHS

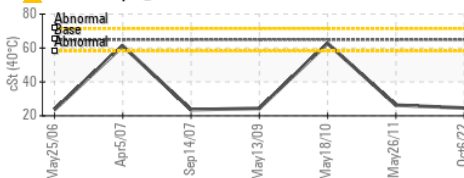
### Ferrous Alloys



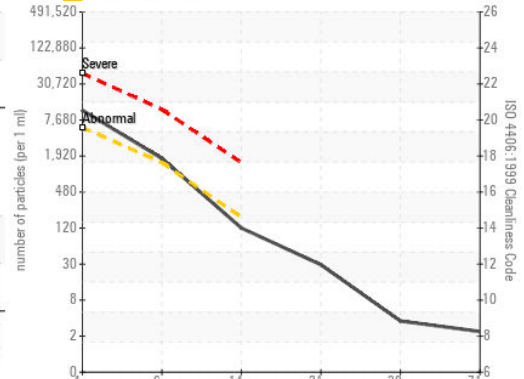
### Non-ferrous Metals



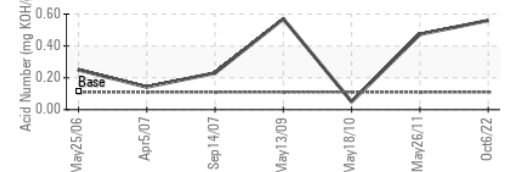
### Viscosity @ 40°C



### Particle Count



### Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
 Sample No. : WC0445159 Received : 20 Oct 2022  
 Lab Number : 02517590 Diagnosed : 21 Oct 2022  
 Unique Number : 5474570 Diagnostician : Kevin Marson  
 Test Package : IND 2 ( Additional Tests: TAN Man )

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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