



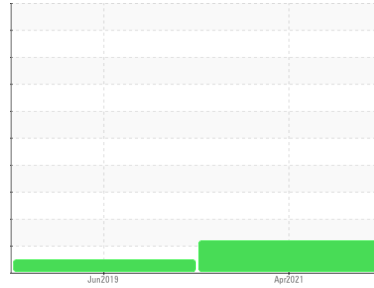
# PROBLEM SUMMARY

Sample Rating Trend

ISO

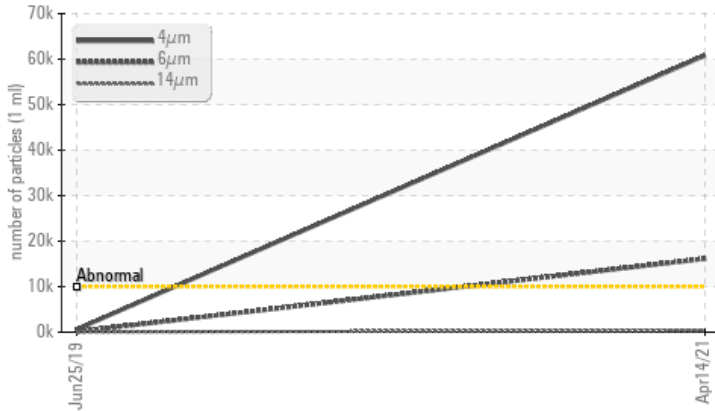


Machine Id  
**OP6G1**  
Component  
**Thrust Bearing**  
Fluid  
**R&O OIL ISO 46 (--- GAL)**



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) R&O OIL ISO 46. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	---
Particles >4µm	ASTM D7647	>10000	▲ 60830	612	---
Particles >6µm	ASTM D7647	>2500	▲ 16150	110	---
Particles >14µm	ASTM D7647	>160	▲ 366	11	---
Oil Cleanliness	ISO 4406 (c)	>20/18/14	▲ 23/21/16	16/14/11	---
PrtFilter					no image

Customer Id: ONTKEE  
Sample No.: WC0560598  
Lab Number: 02423566  
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.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## HISTORICAL DIAGNOSIS

NORMAL



### 25 Jun 2019 Diag: Kevin Marson

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) R&O OIL ISO 46. Please confirm. 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.

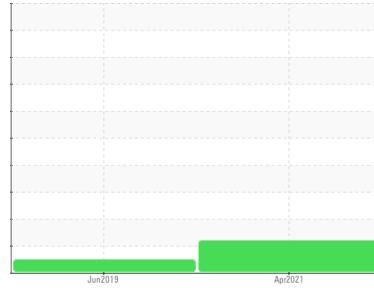
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**OP6G1**

Component  
**Thrust Bearing**

Fluid  
**R&O OIL ISO 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) R&O OIL ISO 46. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

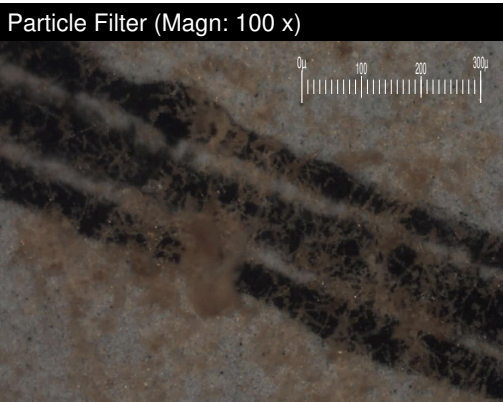
All component wear rates are normal.

### Contamination

Particles >14µm are abnormally high. Particles >4µm are abnormally high. Particles >6µm are abnormally high.

### 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	<b>WC0560598</b>	WC	---
Sample Date	Client Info	<b>14 Apr 2021</b>	25 Jun 2019	---
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	N/A	---
Sample Status		<b>ABNORMAL</b>	NORMAL	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	>2	<b>NEG</b>	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>85	<b>&lt;1</b>	2
Chromium	ppm	ASTM D5185(m)		<b>0</b>	0
Nickel	ppm	ASTM D5185(m)		<b>0</b>	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0
Aluminum	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1
Lead	ppm	ASTM D5185(m)	>60	<b>&lt;1</b>	<1
Copper	ppm	ASTM D5185(m)	>7	<b>&lt;1</b>	<1
Tin	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	<1

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	0
Barium	ppm	ASTM D5185(m)	5	<b>0</b>	0
Molybdenum	ppm	ASTM D5185(m)	5	<b>0</b>	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1
Magnesium	ppm	ASTM D5185(m)	5	<b>0</b>	<1
Calcium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	<1
Phosphorus	ppm	ASTM D5185(m)	100	<b>2</b>	2
Zinc	ppm	ASTM D5185(m)	25	<b>2</b>	2
Sulfur	ppm	ASTM D5185(m)	1500	<b>2106</b>	1898
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0

## CONTAMINANTS

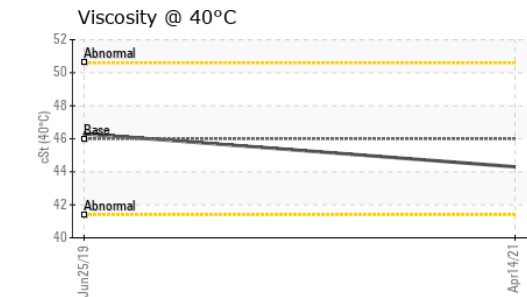
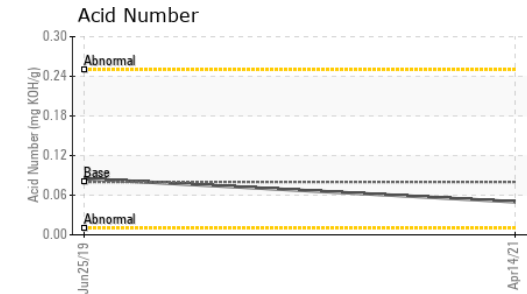
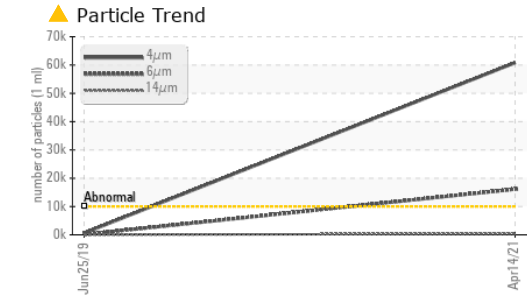
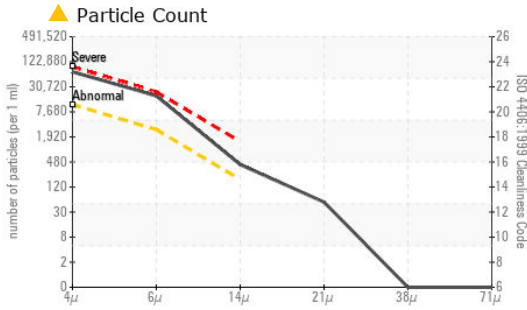
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	3
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>▲ 60830</b>	612
Particles >6µm	ASTM D7647	>2500	<b>▲ 16150</b>	110
Particles >14µm	ASTM D7647	>160	<b>▲ 366</b>	11
Particles >21µm	ASTM D7647	>40	<b>46</b>	2
Particles >38µm	ASTM D7647	>10	<b>0</b>	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0
Oil Cleanliness	ISO 4406 (c)	>20/18/14	<b>▲ 23/21/16</b>	16/14/11



# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.08	<b>0.05</b>	0.085	---
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>2	<b>NEG</b>	NEG	---
Free Water	scalar	Visual*		<b>NEG</b>	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	<b>44.3</b>	46.3	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						no image
Bottom						no image
PrtFilter						no image



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0560598 **Received** : 26 May 2021  
**Lab Number** : **02423566** **Diagnosed** : 27 May 2021  
**Unique Number** : 5227066 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: BottomAnalysis, FilterPatch, PrtCount )

**Ontario Power Generation**  
 KENORA PRODUCTION CENTRE, 200-60 FOURTEENTH ST N.  
 KENORA, ON  
 CA P9N 4M9  
 Contact: Thelma Neudorf  
 thelma.neudorf@opg.com

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.