

# **OIL ANALYSIS REPORT**

# MANITOU FALLS GS FP2G4

Component

**Governor System** 

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

Sample Rating Trend



### 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. Resample at the next service interval to monitor. The fluid was not specified, however, a

R&O OIL ISO 46. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

fluid match indicates that this fluid is (GENERIC)

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### **Fluid Condition**

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0560625	WC0481717	WC0335071
Sample Date		Client Info		29 Mar 2021	08 Jul 2020	09 May 2019
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	2	2	2
Chromium	ppm	ASTM D5185(m)		0	0	0
Nickel	ppm	ASTM D5185(m)		<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>3	<1	0	0
Lead	ppm	ASTM D5185(m)	>75	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>15	<1	0	0
Tin	ppm	ASTM D5185(m)	>55	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	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	history1	history2
Boron	ppm	ASTM D5185(m)	5	<1	<1	0
Barium	ppm	ASTM D5185(m)	5	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	5	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	5	0	<1	<1
Calcium	ppm	ASTM D5185(m)	5	<1	<1	<1
Phosphorus	ppm	ASTM D5185(m)	100	2	4	4
Zinc	ppm	ASTM D5185(m)	25	1	1	2
Sulfur	ppm	ASTM D5185(m)	1500	1918	1907	1898
Lithium	ppm	ASTM D5185(m)		<1	<1	0
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>8	<1	1	<1
Sodium	ppm	ASTM D5185(m)		<1	<1	0
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	5789	8091	7871
Particles >4µm Particles >6µm		ASTM D7647 ASTM D7647	>20000	5789 479	8091 646	7871 366

ASTM D7647 >160

ASTM D7647 >40

ASTM D7647 >10

ISO 4406 (c) >21/19/16

0

0

20/16/10

0

0

20/17/10

Contact/Location: Josh Robinson - ONTKEE

Particles >21µm

Particles >38um

Particles >71µm

Oil Cleanliness

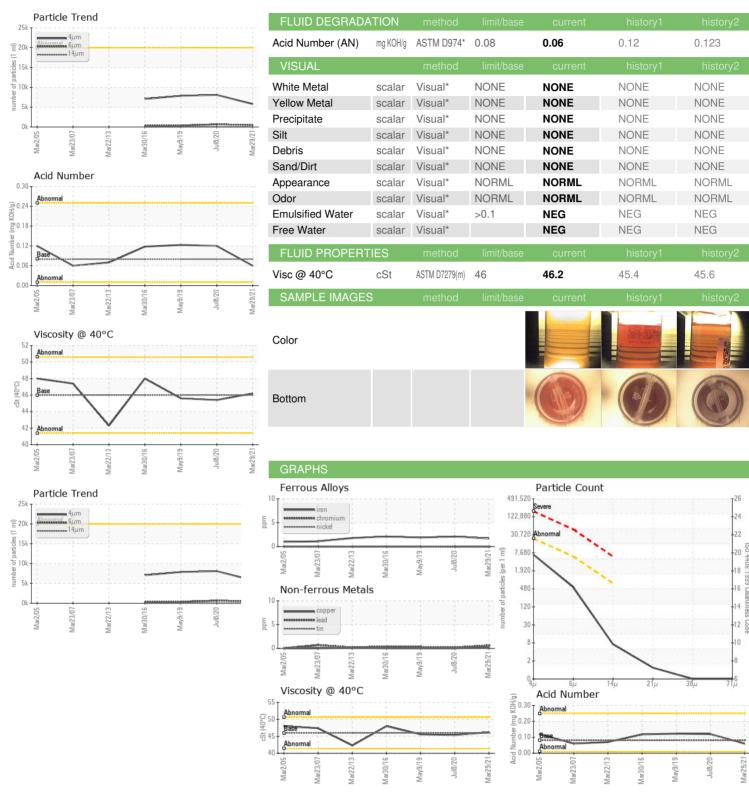
20/16/11

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## OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0560625 : 02423551

: 5227051

Received : 26 May 2021 Diagnosed : 27 May 2021 : Wes Davis Diagnostician

**Ontario Power Generation** KENORA PRODUCTION CENTRE, 200-60 FOURTEENTH ST N. KENORA, ON

**CA P9N 4M9** Contact: Josh Robinson josh.robinson@opg.com

Test Package : IND 2 ( Additional Tests: PrtCount ) 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.

Report Id: ONTKEE [WCAMIS] 02423551 (Generated: 11/27/2023 15:34:02) Rev: 1

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