

OIL ANALYSIS REPORT

CARIBOU FALLS GS FP4G2

Component **Thrust Bearing**

ESSO TERESSO ISO 46 (--- GAL)

Sample Rating Trend



Recommendation

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

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 INFORMATION	N metnoa	ilmit/base	current	nistory i	nistory2
Sample Number	Client Info	V	VC0560604	WC0475096	WC944848
Sample Date	Client Info	1	3 Apr 2021	08 Jul 2020	17 Jul 2018
Machine Age hrs	Client Info	0)	0	0
Oil Age hrs	Client Info	0)	0	0
Oil Changed	Client Info	N	N/A	N/A	N/A
Sample Status		N	NORMAL	NORMAL	SEVERE
		11 1. //			

Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>85	3	2	5
Chromium	ppm	ASTM D5185(m)		0	0	0
Nickel	ppm	ASTM D5185(m)		0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>40	<1	<1	0
Lead	ppm	ASTM D5185(m)	>60	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>7	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>40	<1	<1	<1
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

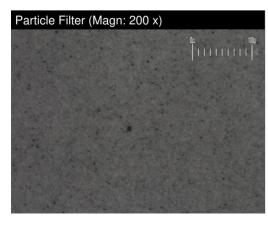
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	0	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	<1	<1
Calcium	ppm	ASTM D5185(m)	0	<1	0	<1
Phosphorus	ppm	ASTM D5185(m)	2.4	<1	0	<1
Zinc	ppm	ASTM D5185(m)	0	1	<1	1
Sulfur	ppm	ASTM D5185(m)		2006	2014	1931
Lithium	ppm	ASTM D5185(m)		<1	<1	0
CONTAMINIANTS		mothod	limit/base	current	hictory1	history?

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	12	5	<u>^</u> 24
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
FLUID CLEANLIN	ESS	method				history2
Particles >4µm		ASTM D7647	>10000	310	651	1028
Particles >6µm		ASTM D7647	>2500	94	67	199
Particles >14μm		ASTM D7647	>160	10	3	14
Particles >21µm		ASTM D7647	>40	4	1	5
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71um		ASTM D7647	\3	0	0	0

ISO 4406 (c) >20/18/14

15/14/10

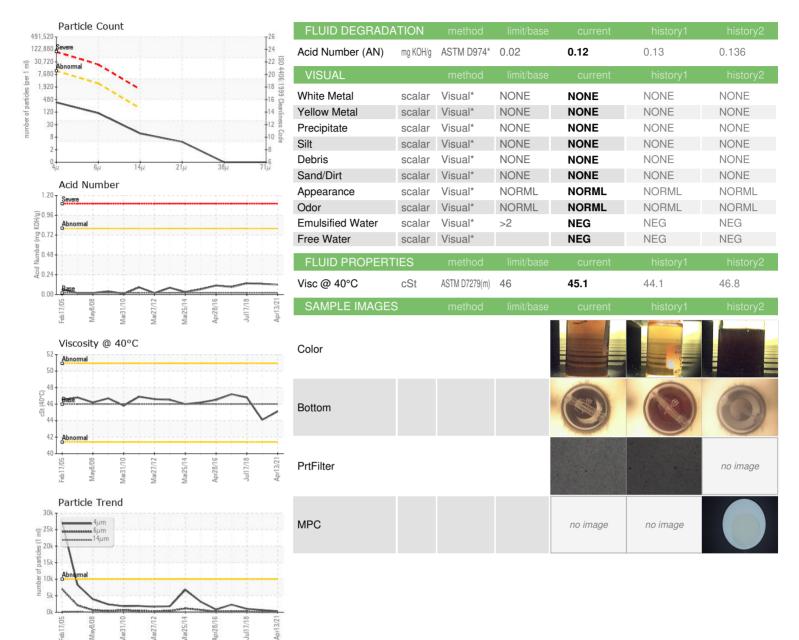
17/13/9



Oil Cleanliness



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WC0560604 : 02423579 : 5227079

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

: 26 May 2021 : 27 May 2021

Diagnostician : Kevin Marson

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

KENORA, ON **CA P9N 4M9**

Test Package: IND 2 (Additional Tests: BottomAnalysis, FilterPatch, PrtCount, TAN Man) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Contact: Josh Robinson josh.robinson@opg.com T:

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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