

# **OIL ANALYSIS REPORT**

SAB1 **SAB1 G10 Governor** 

**Hydraulic System** 

ESSO TERESSO ISO 46 (1600 LTR)

Sample Rating Trend



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

Component wear rates appear to be normal (unconfirmed).

### 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	ATION		li.ee:t/le = = =	aa.a.a.b	المستعددا	histom O
	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0933960	WC0764624	WC0864659
Sample Date Machine Age	hrs	Client Info		03 Jul 2024 0	15 May 2024 0	21 Dec 2023 0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1115	Client Info		N/A	N/A	N/A
Sample Status		Ciletit iiiio		NORMAL	NORMAL	NORMAL
CONTAMINATION		m oth o d	limit/base			
Water		method WC Method	>0.05	current	history1 NEG	history2 NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<1	<1	<1
Chromium	ppm	ASTM D5185(m)		0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0	<1
	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)		<1	0	<1
Lead	ppm	ASTM D5185(m)	>20	0	0	<1
Copper	ppm	ASTM D5185(m)	>20	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	0	0	0
	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	0	0	0	<1
	ppm	ASTM D5185(m)	0	<1	0	<1
Phosphorus	ppm	ASTM D5185(m)	2.4	14	14	16
	ppm	ASTM D5185(m)	0	1	<1	<1
Sulfur	ppm	ASTM D5185(m)		714	706	794
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	0	0
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	353	838	1490
Particles >6µm		ASTM D7647	>640	112	246	124
Particles >14μm		ASTM D7647	>80	10	16	5
Particles >21μm		ASTM D7647	>20	3	3	0
Particles >38µm		ASTM D7647	>4	0	1	0
raiticles >30μm						
Particles >71μm		ASTM D7647	>3	0	0	0

ISO 4406 (c) >18/16/13

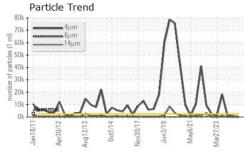
16/14/10

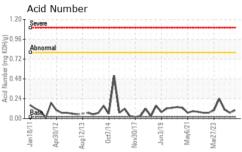
17/15/11

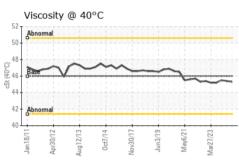
Oil Cleanliness

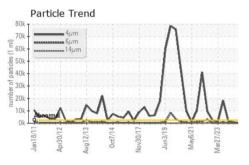


## **OIL ANALYSIS REPORT**

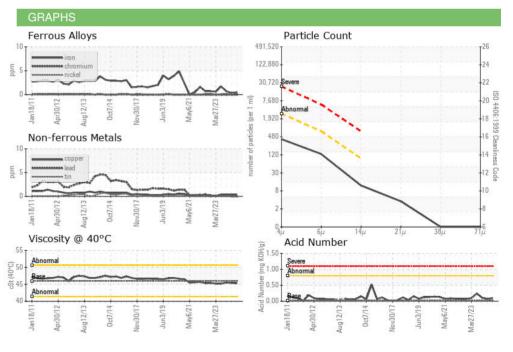








FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.10	0.07	0.11
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	Visual*	>0.05	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	45.3	45.4	45.5
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
			8			G26400







Laboratory

Laboratory

Sample No. Lab Number : 02645454 Unique Number : 5802993

Color

**Bottom** 

: WC0933960

To discuss this sample report, contact Customer Service at 1-800-268-2131.

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

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

: 04 Jul 2024 **Tested** Diagnosed Test Package : IND 2 ( Additional Tests: TAN Man )

: 05 Jul 2024

: 05 Jul 2024 - Kevin Marson

CA LOS 1J0 Contact: Michael Brochu mike.brochu@opg.com

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**Ontario Power Generation** 

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Validity of results and interpretation are based on the sample and information as supplied. Report Id: ONTQUE [WCAMIS] 02645454 (Generated: 07/05/2024 10:11:05) Rev: 1

Submitted By: ?