

SAB1 G10

DIAGNOSIS Recommendation

Wear

(unconfirmed). Contamination

Fluid Condition

Middle Guide Bearing

particles present in the fluid.

cleanliness is acceptable.

ESSO TERESSO ISO 46 (4250 LTR)

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

Component wear rates appear to be normal

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

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

Area SAB1 Machine Id

OIL ANALYSIS REPORT

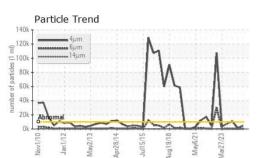
NORMAL

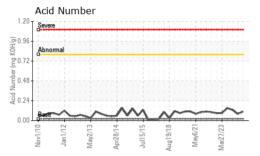


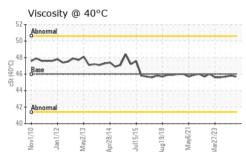
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LeadppmCopperppmTinppmAntimonyppmVanadiumppmBerylliumppmCadmiumppmCadmiumppmBoronppmBariumppmMalybdenumppmMagnesiumppmCalciumppmSulfurppmSulfurppmSiliconppmSodiumppmPotassiumppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >20 >20	<1 <1 0 0 0 0	0 <1 0 0 0 0	<1 <1 0 0 0
Copper ppm Tin ppm Antimony ppm Vanadium ppm Beryllium ppm Cadmium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Manganese ppm Calcium ppm Calcium ppm Calcium ppm Calcium ppm Sulfur ppm Sulfur ppm Sulfur ppm CONTAMINANTS Silicon ppm Potassium ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >20	<1 0 0 0 0	<1 0 0 0 0	<1 0 0 0
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Antimony ppm Vanadium ppm Beryllium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Zinc ppm Sulfur ppm Lithium ppm Solifur ppm Solicon ppm Sodium ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 0	0 0 0 0	0
Vanadium ppm Beryllium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Sulfur ppm Sulfur ppm Sulfur ppm Sulfur ppm Sulfur ppm CONTAMINANTS Silicon ppm Sodium ppm	ASTM D5185(m) ASTM D5185(m)		0	0	0
Beryllium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Zinc ppm Sulfur ppm Lithium ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm	ASTM D5185(m)		0	0	
CadmiumppmADDITIVESBoronppmBariumppmMolybdenumppmManganeseppmMagnesiumppmCalciumppmPhosphorusppmZincppmSulfurppmLithiumppmSoliconppmSodiumppmPotassiumppm			-		0
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Molybdenum ppm Manganese ppm Magnesium ppm Calcium ppm Calcium ppm Zinc ppm Zinc ppm Lithium ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm	ASTM D5185(m)	0	<1	0	0
ManganeseppmMagnesiumppmCalciumppmPhosphorusppmZincppmSulfurppmLithiumppmCONTAMINANTSSiliconppmSodiumppmPotassiumppm	ASTM D5185(m)		0	0	0
Magnesium ppm Calcium ppm Calcium ppm Phosphorus ppm Zinc ppm Sulfur ppm Lithium ppm CONTAMINANTS Silicon Sodium ppm Potassium ppm	ASTM D5185(m)	0	0	0	0
CalciumppmPhosphorusppmZincppmSulfurppmLithiumppmCONTAMINANTSSiliconppmSodiumppmPotassiumppm	ASTM D5185(m)		0	0	0
Phosphorus ppm Zinc ppm Sulfur ppm Lithium ppm CONTAMINANTS Silicon ppm Sodium ppm	ASTM D5185(m)	0	0	<1	0
Zinc ppm Sulfur ppm Lithium ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm	ASTM D5185(m)	0	<1	<1	<1
Sulfur ppm Lithium ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm	ASTM D5185(m)	2.4	9	9	8
Lithium ppm CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm	ASTM D5185(m)	0	2	2	2
CONTAMINANTS Silicon ppm Sodium ppm Potassium ppm	ASTM D5185(m)		1301	1263	1439
Silicon ppm Sodium ppm Potassium ppm	ASTM D5185(m)		<1	<1	<1
Sodium ppm Potassium ppm	method	limit/base	current	history1	history2
Potassium ppm	ASTM D5185(m)	>15	5	4	6
	ASTM D5185(m)		0	0	0
FLUID CLEANLINESS		>20	<1	<1	<1
	ASTM D5185(m)	limit/base	current	history1	history2
Particles >4µm	ASTM D5185(m) method	>10000	4814	1212	0790
Particles >6µm	. ,			49	222
Particles >14µm	method		121		4
Particles >21µm	method ASTM D7647	>1300	121 7	5	
Particles >38µm	method ASTM D7647 ASTM D7647	>1300 >320		5 2	1
Particles >71µm	method ASTM D7647 ASTM D7647 ASTM D7647	>1300 >320 >80	7		
Oil Cleanliness	method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>1300 >320 >80 >20	7 1	2	1

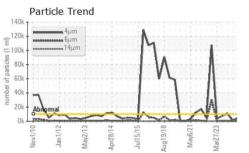


OIL ANALYSIS REPORT







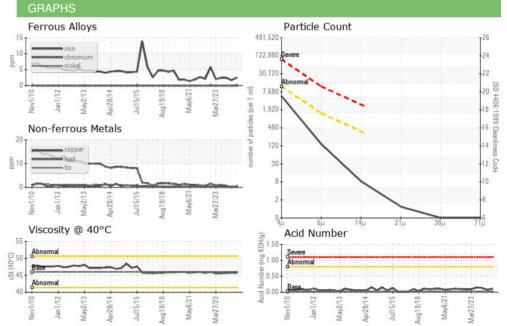


FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.11	0.08	0.13
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	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
Emulsified Water	scalar	Visual*	>2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	45.7	45.8	45.7
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
					In the second	

Color



Bottom



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Ontario Power Generation** CALA Sample No. : WC0933957 Received : 04 Jul 2024 Lab Number : 02645488 Tested : 05 Jul 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5803027 Diagnosed : 05 Jul 2024 - 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.

NIAGARA PLANT GROUP,, 14000 NIAGARA PKWY NIAGARA ON THE LAKE, ON CA LOS 1J0 Contact: Michael Brochu mike.brochu@opg.com T: (905)357-0322 F: (905)374-5466

Report Id: ONTQUE [WCAMIS] 02645488 (Generated: 07/05/2024 10:10:42) Rev: 1

Submitted By: ? Page 2 of 2