



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**SAB1**  
Machine Id  
Component  
**SAB1 G4 Governor**  
Hydraulic System  
Fluid  
ESSEO TERESSO ISO 46 (1600 LTR)

## RECOMMENDATION

There was no oil present in the sample container to perform any laboratory test.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0812554</b>	WC0642842	WC0864635
Sample Date		Client Info		<b>15 May 2024</b>	15 May 2024	21 Dec 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR

{not applicable}

Iron	ppm	ASTM D5185(m)	>20	---	<1	<1
Chromium	ppm	ASTM D5185(m)	>20	---	0	0
Nickel	ppm	ASTM D5185(m)	>20	---	0	0
Titanium	ppm	ASTM D5185(m)		---	0	0
Silver	ppm	ASTM D5185(m)		---	0	0
Aluminum	ppm	ASTM D5185(m)	>20	---	0	<1
Lead	ppm	ASTM D5185(m)	>20	---	0	0
Copper	ppm	ASTM D5185(m)	>20	---	<1	<1
Tin	ppm	ASTM D5185(m)	>20	---	0	0
Vanadium	ppm	ASTM D5185(m)		---	0	0
White Metal	scalar	Visual*	NONE	---	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	---	NONE	NONE

## CONTAMINATION

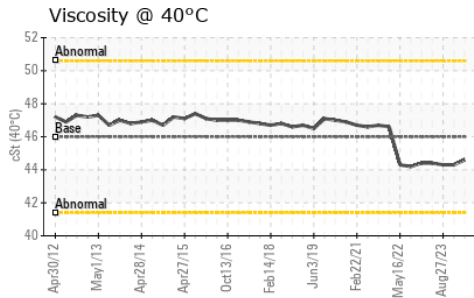
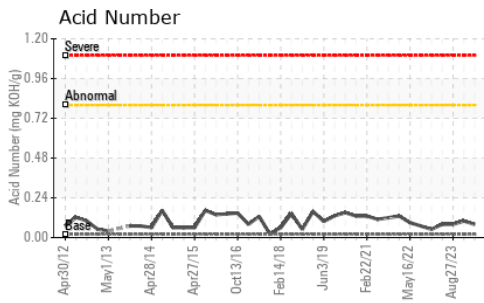
{not applicable}

Silicon	ppm	ASTM D5185(m)	>15	---	0	0
Potassium	ppm	ASTM D5185(m)	>20	---	<1	<1
Water		WC Method	>0.05	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>2500	---	1588	392
Particles >6µm		ASTM D7647	>640	---	174	57
Particles >14µm		ASTM D7647	>80	---	8	5
Particles >21µm		ASTM D7647	>20	---	3	1
Particles >38µm		ASTM D7647	>4	---	0	0
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	---	18/15/10	16/13/10
Silt	scalar	Visual*	NONE	---	NONE	NONE
Debris	scalar	Visual*	NONE	---	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	---	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>▲ NOOIL</b>	NORML	NORML
Odor	scalar	Visual*	NORML	---	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	---	NEG	NEG

## FLUID CONDITION

{not applicable}

Sodium	ppm	ASTM D5185(m)		---	0	0
Boron	ppm	ASTM D5185(m)	0	---	<1	0
Barium	ppm	ASTM D5185(m)		---	0	0
Molybdenum	ppm	ASTM D5185(m)	0	---	0	0
Manganese	ppm	ASTM D5185(m)		---	0	0
Magnesium	ppm	ASTM D5185(m)	0	---	0	0
Calcium	ppm	ASTM D5185(m)	0	---	<1	<1
Phosphorus	ppm	ASTM D5185(m)	2.4	---	1	0
Zinc	ppm	ASTM D5185(m)	0	---	1	<1
Sulfur	ppm	ASTM D5185(m)		---	707	789
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	---	0.08	0.10
Visc @ 40°C	cSt	ASTM D7279(m)	46	---	44.6	44.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0812554  
**Lab Number** : 02636238  
**Unique Number** : 5785400  
**Test Package** : TEST ( Additional Tests: ICP, KV40, PrtCount, Spat, TAN Man )

**Ontario Power Generation**  
 NIAGARA PLANT GROUP, 14000 NIAGARA PKWY  
 NIAGARA ON THE LAKE, ON  
 CA L0S 1J0

Contact: Michael Brochu  
 mike.brochu@opg.com  
 T: (905)357-0322  
 F: (905)374-5466

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.