



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**SAB2**  
Machine Id  
**SAB2 G11**  
Component  
**Turbine Bearing**  
Fluid  
**ESSO TERESSO ISO 46 (273 LTR)**

## RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0801601</b>	WC0858058	WC0830358
Sample Date		Client Info		<b>07 Jan 2024</b>	25 Oct 2023	31 Jul 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>	ATTENTION	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>7	<b>1</b>	1	2
Chromium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185(m)	>33	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>6	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

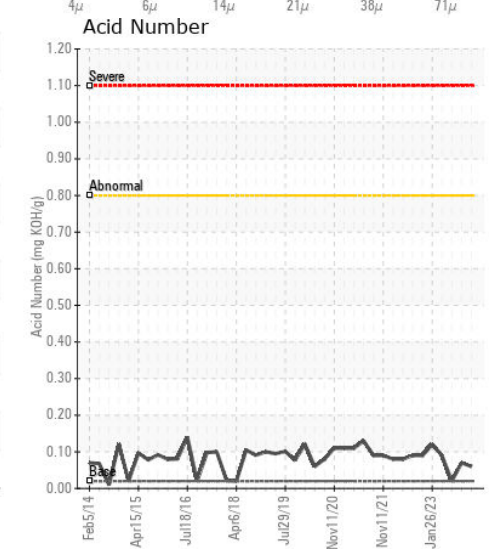
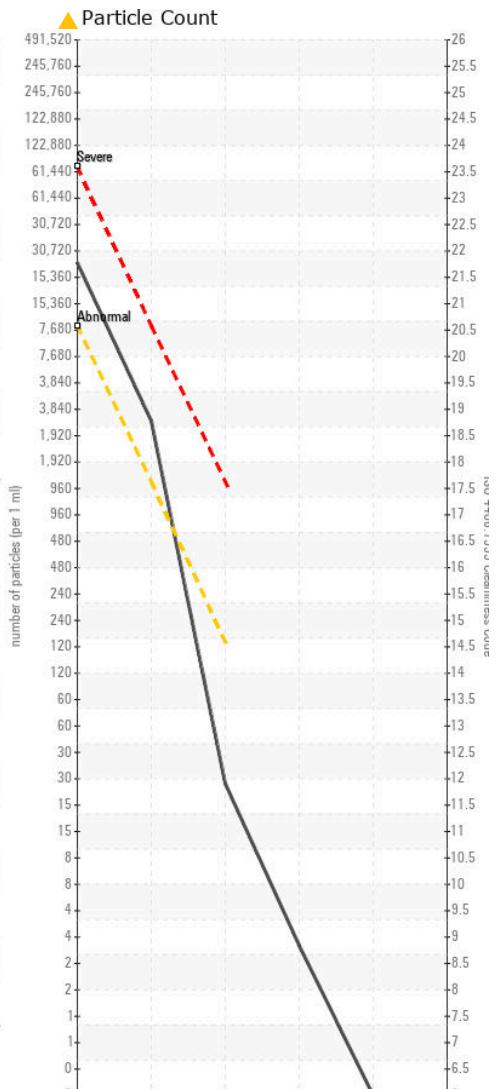
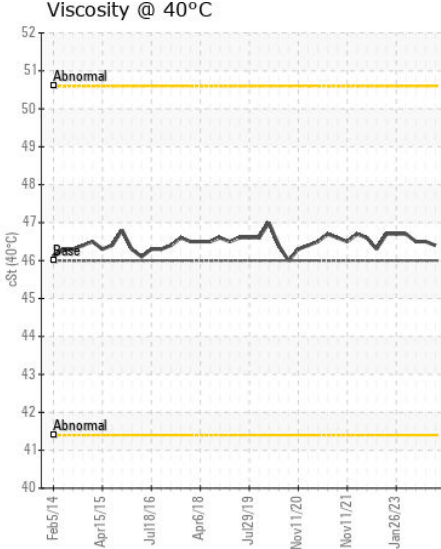
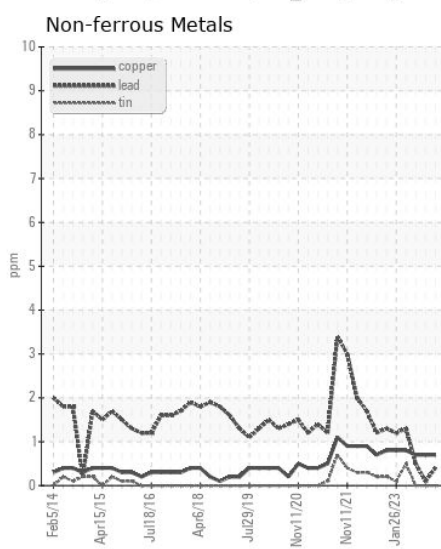
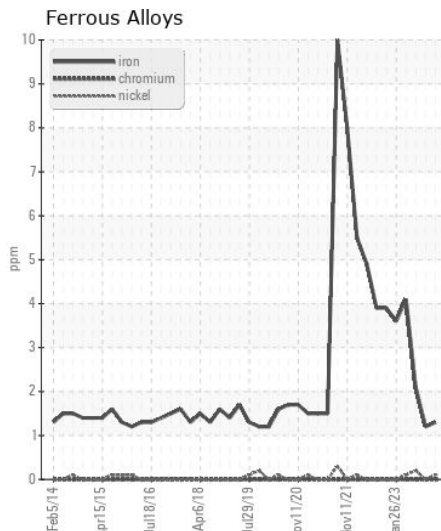
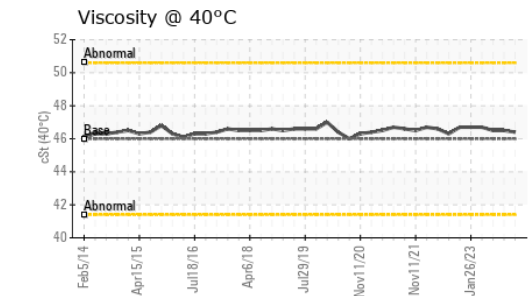
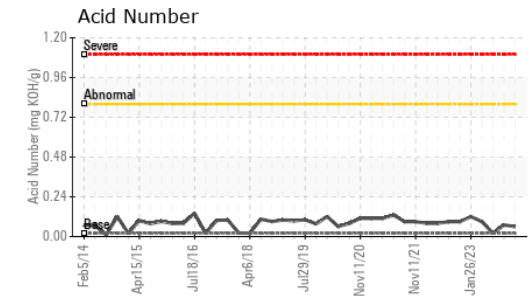
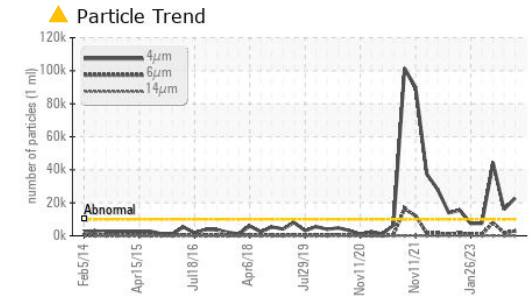
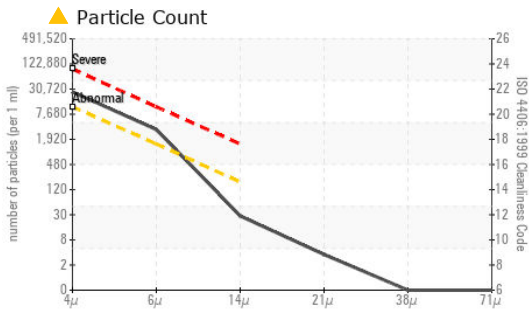
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

Silicon	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Water		WC Method	>2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>10000	<b>▲ 22797</b>	▲ 15979	▲ 44421
Particles >6µm		ASTM D7647	>1300	<b>▲ 2880</b>	▲ 1897	▲ 7924
Particles >14µm		ASTM D7647	>160	<b>25</b>	17	95
Particles >21µm		ASTM D7647	>40	<b>3</b>	3	12
Particles >38µm		ASTM D7647	>10	<b>0</b>	1	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	1
Oil Cleanliness		ISO 4406 (c)	>20/17/14	<b>▲ 22/19/12</b>	▲ 21/18/11	▲ 23/20/14
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Boron	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Calcium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	1
Phosphorus	ppm	ASTM D5185(m)	2.4	<b>0</b>	<1	<1
Zinc	ppm	ASTM D5185(m)	0	<b>4</b>	3	4
Sulfur	ppm	ASTM D5185(m)		<b>736</b>	686	775
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	<b>0.06</b>	0.07	0.02
Visc @ 40°C	cSt	ASTM D7279(m)	46	<b>46.4</b>	46.5	46.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0801601 **Received** : 08 Jan 2024  
**Lab Number** : 02607122 **Diagnosed** : 09 Jan 2024  
**Unique Number** : 5708208 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**Ontario Power Generation**  
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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.