

# **OIL ANALYSIS REPORT**

SAMPLE INFORMATION

method

SAB2 **SAB2 G17** 

Component **Thrust Bearing** 

ESSO TERESSO ISO 46 (3182 LTR)

# Sample Rating Trend

limit/base



history2

history1

# **DIAGNOSIS**

### Recommendation

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

### Wear

Component wear rates appear to be normal (unconfirmed).

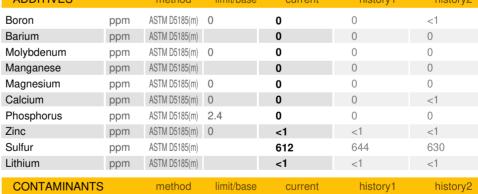
## Contamination

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.

## **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.

Sample Number		Client Info		WC0890848	WC0801587	WC0858080
Sample Date		Client Info		27 Mar 2024	07 Jan 2024	25 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
		MO Mathad	0	NEO		,
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>85	3	3	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>40	0	<1	0
Lead	ppm	ASTM D5185(m)	>60	0	<1	<1
Copper	ppm	ASTM D5185(m)	>7	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>40	0	0	0
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	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	0	0	<1
Barium	ppm	ASTM D5185(m)		0	0	0

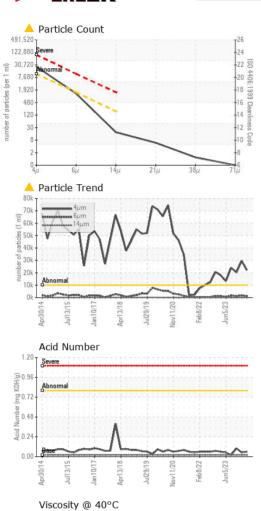


	Littilatii	ppiii	NOTIVI DOTOO(III)		<b>`</b> '	<u> </u>	<u> </u>	
le Filter (Magn: 100 x)	CONTAMINANTS	3	method	limit/base	current	history1	history2	
01- 100 200   [1]	Silicon	ppm	ASTM D5185(m)	>20	0	0	0	
	Sodium	ppm	ASTM D5185(m)		0	0	0	
	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1	
	FLUID CLEANLII	NESS	method	limit/base	current	history1	history2	
	Particles >4µm		ASTM D7647	>10000	<b>22184</b>	<u>\$\text{29564}\$</u>	△ 20255	
	Particles >6µm		ASTM D7647	>1300	1140	1783	1251	
	Particles >14µm		ASTM D7647	>160	16	12	9	
	Particles >21µm		ASTM D7647	>40	5	2	2	
	Particles >38μm		ASTM D7647	>10	1	0	1	
	Particles >71μm		ASTM D7647	>3	0	0	0	
	Oil Cleanliness		ISO 4406 (c)	>20/17/14	<b>22/17/11</b>	<u>^</u> 22/18/11	<b>22/17/10</b>	

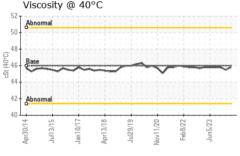




# **OIL ANALYSIS REPORT**



FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.06	0.05	0.10
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*	>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	45.8	45.5	45.8
SAMPLE IMAGES	}	method	limit/base	current	history1	history2
Color						
Bottom						
PrtFilter						





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02625273 Unique Number : 5750392

: WC0890848

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

: 28 Mar 2024 : 01 Apr 2024 : 01 Apr 2024 - Kevin Marson

**Ontario Power Generation** NIAGARA PLANT GROUP,, 14000 NIAGARA PKWY

NIAGARA ON THE LAKE, ON CA LOS 1J0

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

alex.courtemanche@opg.com

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.

T: (905)357-0322 F: (905)357-6558