

**Hydraulic System** 

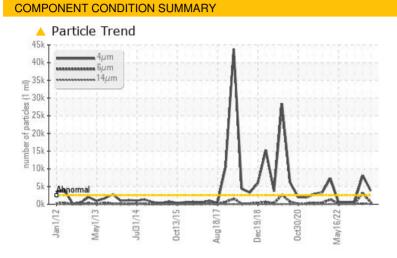
Area SAB1

Component

# **PROBLEM SUMMARY**

# 

Sample Rating Trend



## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

SAB1 G8 Governor Sump

ESSO TERESSO ISO 46 (1600 LTR)

PROBLEMATIC TEST RESULTS								
Sample Status			ATTENTION	ABNORMAL	NORMAL			
Particles >4µm	ASTM D7647	>2500	<b>A</b> 3798	<b>A</b> 8109	627			
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<u> </u>	🔺 20/19/15	16/14/10			
PrtFilter				no image	no image			

Customer Id: ONTQUE Sample No.: WC0828630 Lab Number: 02578787 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

*To change component or sample information:* Gloria Gonzalez +1 (289)291-4643 x4643 <u>gloria.gonzalez@wearcheck.com</u>

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		

## HISTORICAL DIAGNOSIS

## 27 Mar 2023 Diag: Kevin Marson



We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. Oil Cleanliness are abnormally high. Particles >14 $\mu$ m are abnormally high. Particles >21 $\mu$ m are abnormally high. Particles >4 $\mu$ m are abnormally high. Particles >6 $\mu$ m are abnormally high. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



view report

## 14 Nov 2022 Diag: Kevin Marson



Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 27 Sep 2022 Diag: Kevin Marson

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





Report Id: ONTQUE [WCAMIS] 02578787 (Generated: 08/30/2023 07:24:34) Rev: 1



## **OIL ANALYSIS REPORT**

## Area SAB1 SAB1 G8 Governor Sump Component

Hydraulic System ESSO TERESSO ISO 46 (1600 LTR)

## DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## Wear

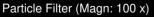
All component wear rates are normal.

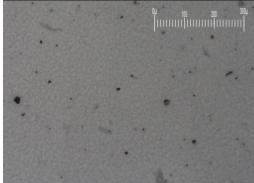
## Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

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





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ISO

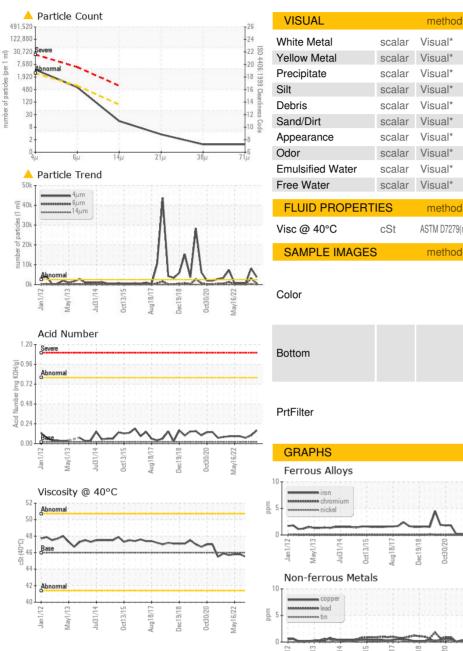
## 

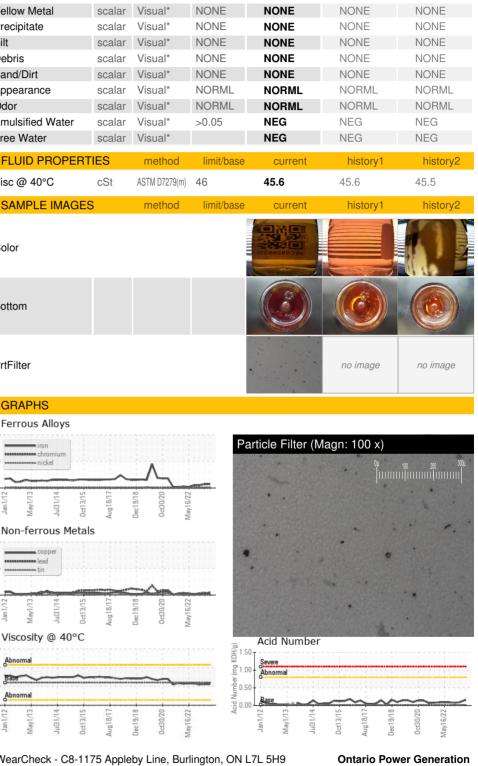
Sample Rating Trend

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0828630	WC0642882	WC0676690
Sample Date		Client Info		27 Aug 2023	27 Mar 2023	14 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	110	Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	NORMAL
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	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)		<1	0	0
Lead	ppm	ASTM D5185(m)	>20	<1	<1	<1
Copper	ppm	ASTM D5185(m)		<1	<1	<1
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	<1
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	<1	<1	<1
Barium	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	<1	0
Calcium	ppm	ASTM D5185(m)	0	<1	0	0
Phosphorus	ppm	ASTM D5185(m)	2.4	1	<1	<1
Zinc	ppm	ASTM D5185(m)	0	2	<1	<1
Sulfur	ppm	ASTM D5185(m)		835	875	815
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	<1	<1	0
Sodium	ppm	ASTM D5185(m)		<1	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>A</b> 3798	<b>A</b> 8109	627
Particles >6µm		ASTM D7647	>640	542	<b>A</b> 3114	158
Particles >14µm		ASTM D7647	>80	13	<u> </u>	10
Particles >21µm		ASTM D7647	>20	3	<b>6</b> 6	2
Particles >38µm		ASTM D7647	>4	1	1	0
Particles >71μm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>A</b> 19/16/11	▲ 20/19/15	16/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.16	0.10	0.07
24:34) Rev: 1						Submitted By:



# **OIL ANALYSIS REPORT**





limit/base

NONE

current

VLITE

history1

NONE

history2

NONE

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received NIAGARA PLANT GROUP,, 14000 NIAGARA PKWY : WC0828630 : 28 Aug 2023 Lab Number : 30 Aug 2023 : 02578787 Diagnosed NIAGARA ON THE LAKE, ON ISO 17025:2017 Diagnostician : Kevin Marson Accredited CA LOS 1J0 Unique Number : 5631847 Laboratory Test Package : IND 2 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, PrtFilter, TAN Man) Contact: Michael Brochu To discuss this sample report, contact Customer Service at 1-800-268-2131. mike.brochu@opg.com T: (905)357-0322 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (905)374-5466

Validity of results and interpretation are based on the sample and information as supplied.

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