

# **OIL ANALYSIS REPORT**

SAMPLE INFORMAT

## **VISUAL METAL**



history2

# ESSO TERESSO ISO 46 (4250 LTR)

## DIAGNOSIS

SAB1 G9 Component Thrust Bearing

Area SAB1 Machine Id

Fluid

#### Recommendation

We advise that you check for visible metal particles in the oil. 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

Light concentration of visible metal present. All other component wear rates are normal.

#### Contamination

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

### **Fluid Condition**

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



Report Id: ONTQUE [WCAMIS] 02645490 (Generated: 07/09/2024 16:55:09) Rev: 1

	12012	Aug2013 Oct2014 May/	2016 Dec2019 Aug2021	NovŽOZZ Mayži	0000 024	
ION	method	l limit/ba	ise cur	rent	history1	
	Client Inf	Ō	WC0933	3983	NC0565947	7

Sample Number		Client Info		WC0933983	WC0565947	WC0565946
Sample Date		Client Info		03 Jul 2024	25 May 2024	25 May 2024
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				MARGINAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>85	<1	<1	<1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>40	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>60	0	0	0
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	<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	0	0
Calcium	ppm	ASTM D5185(m)		<1	<1	<1
Phosphorus	ppm	ASTM D5185(m)	2.4	3	3	3
Zinc	ppm	ASTM D5185(m)	0	1	1	1
Sulfur	ppm	ASTM D5185(m)		669	637	632
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<1	<1	0
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1209	840	898
Particles >6µm		ASTM D7647	>1300	398	86	119
Particles >14µm		ASTM D7647	>160	30	5	11
Particles >21µm		ASTM D7647	>40	5	2	3
Particles >38µm		ASTM D7647	>10	1	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness 3:55:09) Rev: 1		ISO 4406 (c)	>20/17/14	<b>17/16/12</b> 17/14/10 17/14/11 Contact/Location: Michael Brochu - ONTQUE		

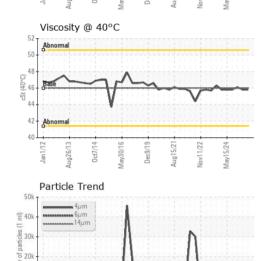
Contact/Location: Michael Brochu - ONTQUE



# **OIL ANALYSIS REPORT**

method

Particle Count	FLUID DEGRADA	TION
122,880 Severe -24	Acid Number (AN)	mg KOH/g
20 68	VISUAL	
20 4406:1999 - 20 4406:1999 - 20 4406:1999 - 18 99 Cleanliness Code - 18 99 Cleanliness Code - 14 99 - 16 00 - 14 99 - 16 00 - 14 99 - 14 99 - 14 99 - 14 99	White Metal	scalar
14 min	Yellow Metal	scalar
	Precipitate	scalar
	Silt	scalar
$0_{4\mu}$ $6\mu$ $14\mu$ $21\mu$ $38\mu$ $71\mu$	Debris	scalar
Acid Number	Sand/Dirt	scalar
Acid Number	Appearance	scalar
0	Odor	scalar
Abnormal	Emulsified Water	scalar
Ê0.72-	Free Water	scalar
(20.96 H) (20.72 au (20.46 b) (20.46 b) (20.46 b) (20.46 c) (20.46	FLUID PROPERT	IES
8 0.24 0.00 Base	Visc @ 40°C	cSt
Jan1/12 Aug26/13 May30/16 Dec9/19 Dec9/19 May15/24 May15/24	SAMPLE IMAGES	3
Ja Aug De Nov May		



10k - Abnor

Jan 1/12

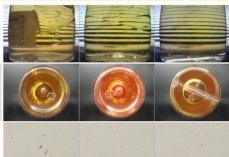
I LOID DEGRADATION		methou	iiiiii/base	current	history i	TIStoryz
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.07	0.04	0.03
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	🔺 VLITE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	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	45.8	45.8	46.1
SAMPLE IMAGES		method	limit/base	current	history1	history2

limit/base

current

Color

Bottom



historv1

history2

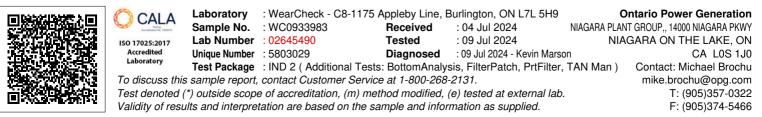
PrtFilter

May15/24

Aug15/21 Vov11/22

Dec9/19

av30/1



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Page 2 of 2