

# EQUINOX

### Australian Locally Manufactured Theatre Garments

**Contact Information** 

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#### Local Medical Garments – Ethical Manufacturing

**Thread Apparel** is a large local supplier of uniforms for healthcare staff in Australia servicing over 12,000 apparel pieces weekly.

With over 18 years of manufacturing experience, the company pivoted factory lines to start producing AAMI Level 2 & 3 Surgical gowns in 2020 for healthcare companies such as Estia Health, Icon Group & Slade Health

Thread Apparel has been one of the early adopters in manufacturing garments from recycled plastic bottles

#### **Ultrasonic Welding Machines**

Thread Apparel have purchased and fitted out 4 factories with the latest in garment production technology using ultrasonic welding machines.

This new technology will allow for improvement in quality and output as well as a reduction in waste and costs.

#### Equinox / Thread Apparel Ultrasonic Welding Machines







#### **Production Capacity**

- Equinox and partner Thread Apparel are currently the largest and most capable surgical medical gown maker in Australia, with current production capacity exceeding 7,200 units a week from 4 manufacturing hubs in Melbourne.
- Potential to increase production capacity with their current operation to 100,000-200,000 locally-made gown units per week
- More machines and fabric are in two international factories, which if relocated to Australia, would increase this capacity and reduce cost exponentially.

#### **Specifications**

- Seams welded with Ultrasonic Machines keeping the critical zones impervious to fluids.
- Knitted or Elastic Cuffs
- Velcro on back Neck
- Full enclosed back with 2 straps or 4 straps with tag
- Sizes S, M, L, XL (Australian standard)





### **EQUIN@X**

#### **Risks & Challenges**

- There is an urgent need for Australian PPE production to reduce sovereign risk for any virus protection
- There exists a lack of sustainable recycling of medical PPE which is either incinerated or sent to landfill
- International supply shocks of raw and finished materials are prevalent in the current market

#### **Opportunities**

- Garment industry jobs for Australians can be created\*
- World-leading recycling technology can originate from Australia
- Cost of recycled gowns has the potential to be self-sustaining through advance manufacturing and recycling
- Cost-effective means of opening borders and resuming economic activity



# +200 Jobs

\*Manufacturing scale up is projected to create 200+ jobs for Australians



#### Local Manufacture Strategy – Job Creation & Sovereign Risk Reduction

In October 2020, Equinox and Thread Apparel agreed to formalise their partnership in a joint venture structure, Equinox One Pty Ltd. Equinox One has established a medical garment brand SeamBiosis<sup>™</sup>

#### **Our Mission:**

- 100% Australian-made medical supplies & garments
- Best practice Australian manufacturing and innovation
- 200+ Job Creation
- 25% recycled medical gowns by 2024
- To assist State Health Organisations achieve 25% recycled medical gowns
- To provide additional manufacturing capacity beyond Victoria by establishing facilities in other states

#### **Our Objectives:**

- To expand and optimise existing garment manufacturing facilities in Australia
- To develop garment recycling technology
- To support & procure locally-manufactured fabric production

#### Progress to date in 2020:

- 40,000 Level 3 surgical gowns sold to Australian healthcare companies
- AAMI accreditation achieved on Level 3 surgical gowns and Level 2 & 3 isolation gowns
- Sterile Level 3 & 4 surgical gowns are being produced for a local order of 25,000 gowns
- Level 4 surgical & isolation gowns soon to be available

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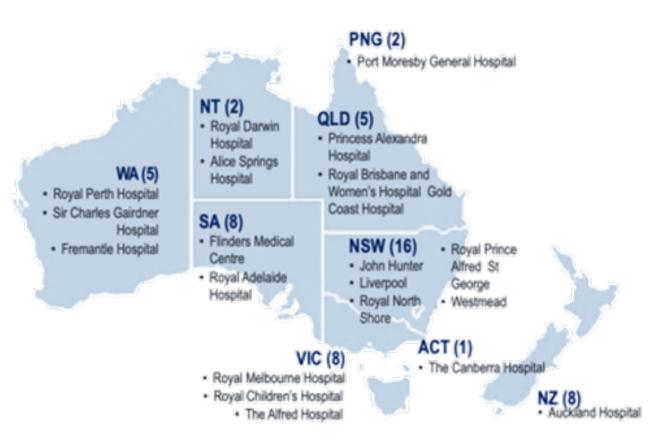
#### **SeamBiosis Value Proposition – Logistics Solution**



- Equinox has an exclusive partnership with EWE, an Australian-based freight forwarding and logistics company
- Existing domestic 3PL network allows for strong negotiations on price and volume discounts from 3rd parties
- Equinox offers a single communication line for product procurement, distribution, freight forwarding, warehousing and site management
- Equinox has a full range of pathology consumables, extraction systems, and PPE. Multiple SKUs facilitates rapid scaling of supply to drive volume-based discounts.

#### Advantages of an Integrated Supply-Chain Network

- Reduced Warehouse Requirements
- Real-time inventory and order management
- Transparent product and logistics costs
- End-to-end delivery tracking, from manufactured materials to patients
- Economies of scale for high-volume medical consumables







## **Products & Specifications**



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#### Standard:

Conforms to Level 3 and Level 4 AAMI PB70 and sterile packaging standards AS/NZS 4187:2014.

#### Use:

Clothing to be worn by surgeons and other healthcare personnel during surgical situations. The clothing will protect both the patient and the medical staff from transfer of bodily fluids, microorganisms and particulate material whilst exposed.

Product Sizes: S / M / L / XL / XXL / XXXL & Extra-Long



FRONT: Featuring protective neck binding and ultrasonic seams.

Spun-bonded layer: providing

enhanced strength

Melt blown layer: providing liquid control and a bacterial barrier

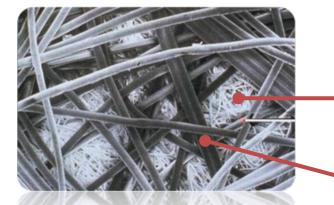




BACK: Featuring closed back with 2 ties and velcro back neck.

#### CUFF:

Featuring knitted cuff option. Offerings include a range of cuffs - thumb hook, elastic, woven.



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SIDE:



**Use:** Clothing to be worn by surgeons and other healthcare personnel during patient isolation situations.

Disposable isolation gowns for use by all medical personnel during procedures anticipating contact with bodily fluids, secretions, excretions and other infectious materials.

Where permitted by the Standard for the category and level of gown, designs should optimize:

- Ease of donning and doffing
- Comfort

Standard: Conforms to Level 3 and Level 4 AAMI PB70.

Design: Compliant to S.A. Health non-sterile packaging.

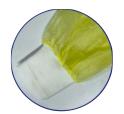
Product Sizes: S / M / L / XL / XXL / XXXL & Extra-Long





Example of one of our Australian-made

**Clinical Isolation Gowns** 



KNITWEAR CUFFS: Increased overall protection, sealing. A range of cuffs - thumb hook, elastic, woven.



KNITWEAR CUFFS: More comfortable to wear. Tie and velcro closures.



WAISTBAND DESIGN: Adjustable lacing to meet the different needs of dressing.



# EQUINOX

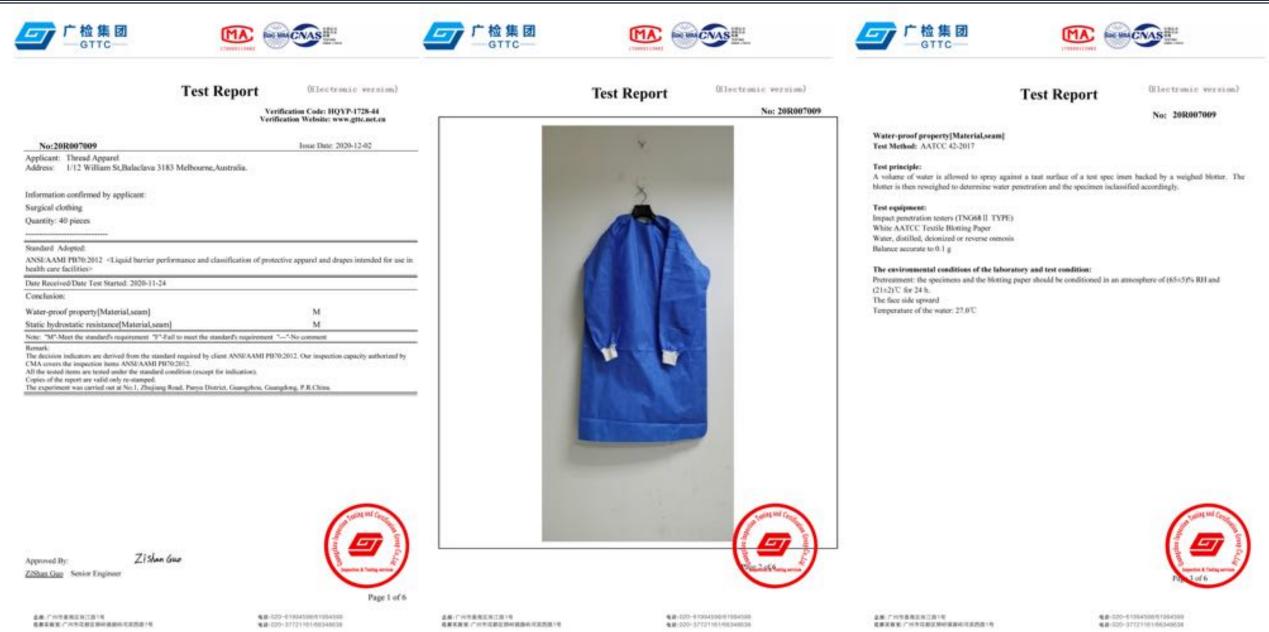
## **TGA Approval & Test Reports**



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#### GTTC Test Report 1.1





#### **TGA Approval – Isolation Gown by Thread Apparel**



		an West	
		Australian Government	
		Department of Health Therapeutic Goods Administration	
Public Summary			
Burnmary Nor ARTO Ex		recident Hamata Family Trust Trading as Thread Apparel - Oown, location, single use	
ARTG entry for	Medical Device Inclu		
Sponsor Postal Address		amily Trust Trading as Thread Appand	
	Authratia	Balaciawa, VIC. 2163	
ARTG Start Date	15/04/2020		
Product Category Status	Medical Device Class Active		
Approval Area	Medical Devices		
Conditions			
(Conditions) of the Then exercise information.	apeutic Goode Act 1989 and I the inclusion related to the r	Ligitor to compliance with all conditions paced or imposed on the APPU entry. Feller Part +3, Divelor 9. Part 5, Divelor 5.2 (Conditions) of the Therapeutic Goods (Medical Devices) Regulations 5002 for beince of the kind may lead to suspension or cancellation of the APPU entry, may be a crininal offence:	
Manufacturere			
Name		Address	
Theodore Hamals Fa Thread Apparel	enly Trust Trading as	1/12 William Street Batactave, VKC, 3183 Australia	1
Products			
1. Gown, Isolati	and allowed use		1
		THE R. LANS.	1
Product Type	Single Device Product	Effective Date 15/04/2020	1
GMDN	35492 Gown, Kolation, and		1
Intended Purpose	The is intended to be used	I as a patient given for resolical use.	1
Specific Conditional No Specific Conditions	a main wheel are Pleasant		
No opeone contrator			1
		It. You are not permitted to re-instrumet, debritues or commentative the material without obtaining proc etablic can be found at http://www.lgs.gov.au/ab/out/website-ospyright.htm.	and the second of the second

#### Intertek Report – Level 3 Surgical Gowns under AATCC testing standards



Intertek Total Quality: Accured		Intertek Total Quality: Assured.				Intertek Tetal Quality Accured.		
TEST REPORT	Number: HKGT05116607	TEST REPORT Tests Conducted (As Requested By The	Applicant)	Number: HKGT05	116607	TEST REPORT	Number: HKGT051166	07
Applicant: THREAD APPAREL 1/12 WILLIAM ST BALACLAVA 3183 MELBOURNE VICTORIA AUSTRALIA AIII: THEO HAMALIS Sample Description As Declared : No. Of Sample : Two Buyer's Name : - Agent's Name : - Agent's Name : - Menufacture's Name : Sample Description : (A-B) Non Woven SMS Fabric (Polypropylene) Colour : (A-B) Blue Style No. : Product End Uses : MenuWomen's Surgical Gown Fibre Content : Fabric (OHT Weight : (A) 44.5g/m <sup>2</sup> (B) 47.8g/m <sup>2</sup> Ref. : Date Received Date Test Startisd : Apr 28, 2020 Applicant's Provided Care Instruction/Label :	Dete: Apr 29, 2020	The model is made adult to the basis of your distructions and (	Nation Pressure): (A) Individual Reading Over 50 cm Over 50 cm Over 50 cm Over 50 cm (B) Individual Reading Over 50 cm Over 50 c	(B) As Bar (B) As Bar 0 g	policant's ourrement 250 cm colicant's ourrement 250 cm 250 cm 250 cm 21.0 g End of Report	Criginal Sample Photo: Conclusion: Hydrostatic Pressure Test As Received Impact Penetration Test As Received Note : C = Conform Label M = Meet Applicant's Requirement F = Fail To Meet Applicant's Requirement # = No Comment # = No Comment * = See Remark For any queries on this report, you are welcome to cor US3 Angle Yu (852) 96639123 or email to <u>angle yubbr</u>		
For and on behalf of Intentisk Testing Services; Hong Kang Limited       Jaddy Y. N. Chung Dention       Beteries Testing Services Hong Kang Limited       J/f Garment Center Kowloon, Hong Kong       Std - 65/2 2178; 8888 Rowloon, Hong Kong	Page 1 07 3	Intersteller Bevöring Samularen Hong Kang Linsteel (J.1.	t for any particular course of action, you are require	hie Are acting as you see 10 or the lands of 1 and and account to company/hits to any own	Be report results. Entertied at	For and on behalf of Intertek Testing Services Hong Kang Limited Tedde Y. R. Chung Deedlar Intertek Seeting Services Hong Kang Limited Shi Lacite Peak Road Reviceor, Hong Kong Limited	w +852 2786 2900	Rege 2.073

#### SGS Test Report – Level 2 Isolation Gowns (1)

SGS Te	est Report – Level 2 Isola	tion Gowns	s (1)							E	QU	IN	X
SGS	HIRCHIRA ING CNAS L0099	SGS		lac-M		VAS	中国认可 国际互认 检测 TESTING CNAS L0599	SGS				VAS	中国认可 国际互认 检测 TESTING CNAS L0599
Test Report S	SL52025246336601TX Date:May 06,2020 Page 1 of 5	Test Report SL52	2524633660	17X 0	ate:May 06,2	1020	Page 2 of 5	Test Report SL52	02524633660	17X 0	ate:May 06,2	020	Page 3 of 5
	MENT CO., LTD. TONGXING TOWN, ZHEN'AN DISTRICT, DANDONG CITY is/were submitted and identified on behalf of the client as:	Test Result Liquid, Barrier, Performance, an in Health Care Facilities (ANSI/VAMI PB70-2012)	d Classificatio	n of Protectiv	e apparel and	Drapes Intens	ded for Use	Section 4.2.1 Water Resistance: (AATCC 127-2018; Hydrostatic H water: 21°C, fabric face side of wi As received	fead; Rate of init		pressure 60mb	ar/min; temp. c	of distilled
Sample Description	(A)Disposable non-sterile isolation gown	2. S	-					Water Column (cmH <sub>2</sub> O)	1#	2#	3#	48	5#
Remain Cales		Section 4.2.1 Water Resistance: (AATCC 42-2017)	impact Penetra	oon test				Area A (Critical zone-front)	×50.0	>50.0	>50.0	>50.0	>50.0
Sample Color	: (A)blue	As received						Area B (Critical zone-sleeve)	24.8	28.4	33.2	31.4	35.0
Sample Receiving Date	4	Weight of blotter gained (g)	1#	2#	24	48	58	Area C (Critical zone-Back)	>50.0	>50.0	>50.0	>50.0	>50.0
nadamad <sup>16</sup>	Apr 30, 2020	Area A (Critical zone-front)	0.0	0.0	0.0	0.0	0.1	Remark:			and the second set of the		
Testing Period	Apr 30, 2020 - May 06, 2020	Area B (Critical zone-sleeve)	0.0	0.0	0.0	0.0	0.0	Level 2: all critical zone comp     Level 3: all critical zone comp					
Test Result(s)	Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).	Area C (Critical zone-Back) Remark: Level 1: all critical zone compo	0.0	0.0	0.0	0.0	0.0						
Test Performed	Selected test(s) as requested by applicant	Level 2: all critical zone compo     Level 3: all critical zone compo	nents shall have	a biotter weight	gain of no more	than 1.0 grams(	g0						
Signed for and on behalf of													
SGS-CSTC Standards Techn	hical Services (Shanghai) Co. Ltd.												
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#### SGS Test Report – Level 2 Isolation Gowns (2)

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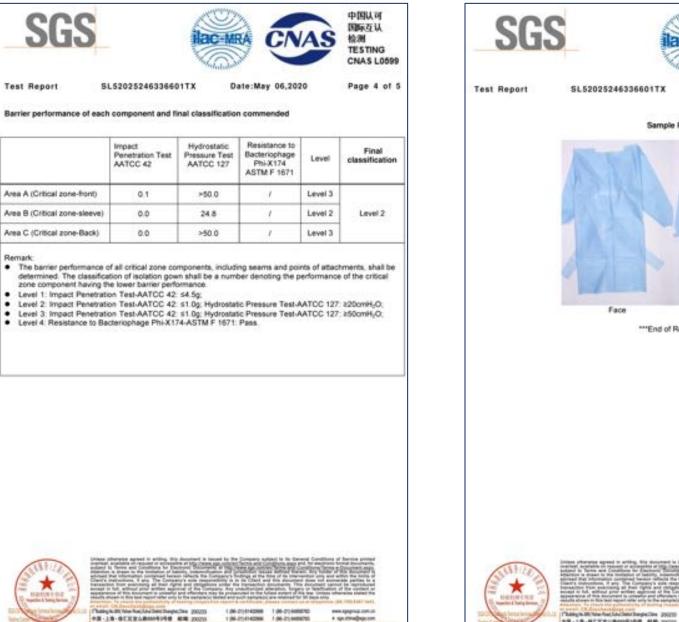
Area A (Critical zone-front)

Area B (Critical zone-sleeve)

Area C (Critical zone-Back)

Remark:

**Test Report** 



中国认可 国际互认 检测 TESTING **CNAS L0599** Date:May 06,2020 Page 5 of 5 Sample Photo Back. \*\*\*End of Report\*\*\*



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#### SGS Test Report – Level 3 Isolation Gowns (1)

est Report	01620262463428017.0	Date: May 07,2020	Page 1 of 5	Test Report S	L52025246342801	TX D	ate:May 07,2	020	Page 2 of 5	Test Report SL52	02524634280	ITX D	ate:May 07,2	020	Page 3 of
	VENT CO., LTD. TONGROUG TOWN, ZHEMAN DIS where submitted and identified on			Test Result						Section 4.2.1 Water Resistance: (AATCC 127-2018: Hydrostatic H water: 21°C, fabric face side of wa	ead; Rate of inc		pressure 60mb	arimin; temp. o	f distilled
				Liquid Barrier Performance Health Care Facilities	e and Classification	of Protective	apparel and	Drapes Intend	ed for Use in	As received					
ample Description	(A)Disposable non-aterile laolati	on gown		(ANSI/AAMI PB70-2012)						Water Column (cmH;O)	5#	2#	3#	48	54
- 24 142. 				Section 4.2.1 Water Resista	nce: Impact Penetrat	ion Test				Area A (Critical zone-front)	>50.0	>50.0	>50.0	>50.0	>50.0
mple Color	(A)blue			(AATOC 42-2017) As received						Area B (Critical zone-sleeve)	>50.0	>50.0	>50.0	>50.0	>50.0
				Weight of blotter gained (g)	1#	2#	3#	48	5#	Area C (Critical zone-Back)	>50.0	>50.0	>50.0	>50.0	>50.0
rple Receiving Date	May 06, 2020			Area A (Critical zone-front)	0.0	0.0	0.0	0.0	0.0	Seam between areas A&B	>50.0	>50.0	>50.0	>50.0	>50.0
ding Period	May 06, 2020 - May 57, 2020			Area B (Critical zone-sleeve)	0.0	0.0	0.0	0.0	0.0	Seam between areas A&C	>50.0	>50.0	>50.0	>50.0	>50.0
R Result(s) Unless otherwise stated the results shown in this test report refer only to the		Area C (Critical zone-Back)	0.0	0.0	0.0	0.0	0.0	Seam between areas B&C					>50.0		
	sample(h) tested, for further det			Seam between areas A&B	0.0	0.0	0.0	0.0	0.0	Collin Derwoon areas bac	>50.0	>50.0	>50.0	>50.0	>00.0
ed Performed Selected text si as requested by applicant		Seam between areas A&C	0.0	0.0	0.0	0.0	0.0	Remark: Level 2 all critical zone components shall have a hydrostatic resistance of at least 20mH-O							
	cenecies succei se redonises o	y sporant		Seam between areas B&C	0.0	0.0	0.0	0.0	0.0	<ul> <li>Level 3: all ontical zone comp</li> </ul>	onents shall have	e a hydrostatic r	esistance of at I	east 50cmH <sub>1</sub> O	
pred for and on behalf of 150 CSTC Standards Tech 250 App	ical Services (Shanghai) Co. Util			Remark: • Level 1: all ortical zone • Level 2: all ortical zone • Level 3: all ortical zone	components shall have	a blotter weigh	t gain of no mor	e than 1.0 gram	18(g)						
s Guo ourt Erecutive			Constant References	ANT AN AN	elementaria segurate de entritaja, letta des restatutas de segurator en alteración de talenca de destatutas de la funciona de elementaria consequencia la estatu- taria elementaria con estatuta entretaria de la elementaria de la funciona de la funciona de la funciona de la elementaria de la elementaria de la elementaria de la funciona de la elementaria de la elementaria de la elementaria de la elementaria de la funciona de la elementaria de la elementaria de la elementaria de la elementaria de la elementaria delementaria de la elementaria de la elementaria de la elementaria de la elementaria de la elementaria de la elementaria de la elementaria delementaria de la elementaria de la element		Second states in the			ALL					

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Member of the SGB Group (SGB SA)

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#### SGS Test Report – Level 3 Isolation Gowns (2)



Barrier performance of each component and final classification commended

	Impact Penetration Test AATCC 42	Hydrostatic Pressure Test AATCC 127	Resistance to Bacteriophage Phi-X174 ASTM F 1671	Level	Final classification
Area A (Critical zone-front)	0.0	>50.0	1	Level 3	
Area B (Ontical zone-sleeve)	0.0	>50.0	/	Level 3	
Area C (Critical zone-Back)	0.0	>50.0	/	Level 3	Level 3
Seam between areas A&B	0.0	>50.0	/	Level 3	Level 3
Seam between areas A&C	0.0	>50.0	1	Level 3	
Seam between areas B&C	0.0	>50.0	1	Level 3	

Remark:

The barrier performance of all critical zone components, including seams and points of attachments, shall be determined. The classification of isolation gown shall be a number denoting the performance of the critical zone component having the lower barrier performance.

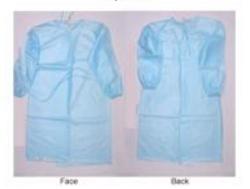
Level 1: Impact Penetration Test-AATCC 42: s4.5g.

Level 2: Impact Penetration Test-AATCC 42: \$1.0p; Hydrostatic Pressure Test-AATCC 127; 220mH/O;

- Level 3: Impact Penetration Test-AATCC 42: \$1.0g. Hydrostatic Pressure Test-AATCC 127: 250cmH;O.
- Level 4: Resistance to Bacteriophage Phi-X174-ASTM F 1671: Pass.



Sample Photo



\*\*\*End of Report\*\*\*



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