REPORT NUMBER: 120-MGA-07-002

SAFETY COMPLIANCE TESTING FOR FMVSS NO. 120 TIRE SELECTION AND RIMS FOR MOTOR VEHICLES WITH A GVWR OF MORE THAN 4,536 KG

THOMAS BUILT BUSES INC. 2007 THOMAS SAF-T-LINER NHTSA NO.: C70900

PREPARED BY:
MGA RESEARCH CORPORATION
5000 WARREN ROAD
BURLINGTON, WI 53105



FINAL REPORT DATE: JUNE 27, 2007

FINAL REPORT

PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
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Prepared by: _____ Date: June 27, 2007

James Hansen, Project Engineer

Date: June 27, 2007

FINAL REPORT ACCEPTED BY OVSC:

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Technical Report Documentation Page

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16. Abstract

A compliance test was conducted on the subject 2007 Thomas Saf-T Liner C2 School Bus, NHTSA No. C70900, in accordance with FMVSS 120, "Tire selection and rims for motor vehicles with a GVWR of more than 4,536 kilograms," and TP-120-03. The vehicle was weighed in the unloaded and fully loaded conditions and its tires, rims, and related information were checked.

Test failures: None

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SECTION 1 PURPOSE OF COMPLIANCE TEST

The purpose of this test report is to document the results of tests performed on a MY 2007 Thomas SAF-T-Liner C2 School Bus, NHTSA No.: C70900, in accordance with the requirements stated in Federal Motor Vehicle Safety Standard (FMVSS) No. 120, "Tire selection and rims for motor vehicles with a GVWR of more than 4,536 kilograms."

This standard establishes requirements to ensure that applicable vehicles are equipped with tires of adequate size and load rating and rims of appropriate size and type designation.

SECTION 2

TEST PROCEDURE AND DISCUSSION OF RESULTS

Testing of the 2007 Thomas SAF-T-Liner C2 School Bus, NHTSA No. C70900, was conducted at MGA Research Corporation in accordance with NHTSA TP-120-03, dated April 10, 2000 and MGA-TP-120-03 dated November 20, 2002. The vehicle mounted tires and rims were surveyed to ensure that the rims were suitable for the tires and that the tires inflated to the maximum inflation pressure stated on the tire sidewall were appropriate for the vehicle's certified Gross Axle Weight Ratings (GAWR). The vehicle certification and tire information labeling was surveyed to ensure that the vehicle manufacturer's recommended rims were suitable for the recommended tires, and that the recommended tires inflated to the recommended inflation pressures stated on the labeling were appropriate for the vehicle's certified GAWRs. The vehicle was ballasted and weighed in three different loading conditions to determine if axle or tire overloading could occur. The three loading conditions were:

- Condition 1 Unloaded Vehicle Weight (UVW).
- Condition 2 Vehicle in Condition 1 state plus the addition of ballast to simulate fifty passengers (one adult driver and forty nine students).
- Condition 3 Vehicle in Condition 2 state plus the addition of ballast to simulate cargo loading. Target vehicle load is the certified gross weight rating (GVWR).

The vehicle mounted tires inflated to the inflation pressure labeled on the tire sidewall have a load rating appropriate to carry the maximum loads as required by FMVSS No. 120. The vehicle rims are suitable for the vehicle tires and contain the required markings.

SECTION 2...continued TEST PROCEDURE AND DISCUSSION OF RESULTS

Model Year/Mfr. /Make/Model:	2007 Thomas SAF-T-Liner C2	
Incomplete Vehicle Make/Model:	Freightliner	
NHTSA No.:	C70900	
GVWR:	11, 569 kg / 25,500 lbs	
Build Date for Bus Chassis:	07/06	
VIN:	4UZABPDG27CY03914	
Chassis VIN:	4UZABPDG27CY03914	
Designated Seating Capacity:	(1 Driver, 48 Passengers, 1 Wheelchair)	
Vehicle Type:	School Bus	
Tire Pressure from certification label (at capacity):	Front: 690 KPa Rear: 689 KPa	
Odometer Reading:	1729 Miles	
Dealer Installed Optional Accessories	None Noted	

SUMMARY

Requirements	PASS/FAIL
TIRE AND RIM SELECTION (S5.1)	PASS
Installed tires and rims are suitable for vehicle	1 400
Rim Marking (S5.2)	PASS
Rims contain all required markings of proper dimensions	PASS
LABEL INFORMATION (S5.3)	
Vehicle has proper certification/tire information label. Label tires at	PASS
recommended inflation pressure and rims are suitable for vehicle.	
Weight Distribution (49 CFR 567 Certification)	PASS
Vehicle loaded with occupants and cargo does not exceed GVWR	PASS
Results:	PASS
Test data indicates compliance with FMVSS 120	PASS

SECTION 3

COMPLIANCE TEST DATA

DATA SHEET 1 GENERAL TIRE AND RIM DATA

Test Vehicle: 2007 THOMAS SAF-T-LINER C2 SCHOOL BUS NHTSA No.: C70900
Test Lab: MGA RESEARCH CORPORATION Test Date: 03/22/2007

GENERAL DATA

Tire Type: (Passenger car or other)	Truck/Bus
Are the tire and rim sizes the same for all axles, including the spare?	Yes
Does the tire size fitted to the axles appear on the Certification or Tire label? (If NO, describe)	Yes
Number of axles	2
Dual tires on rear axle(s)	Yes

TIRE DATA FROM SIDEWALL

	Right Front	Spare
Manufacturer	Goodyear	N/A
Brand	G149 RSA	N/A
Tire Size	10R 22.5	N/A
Maximum Tire Load Rating (KG)	Single: 2360 Dual: 2240	N/A
De-rated Tire Load Rating (KG)	N/A	N/A
Maximum Inflation Pressure (KPA)	690	N/A
Tire has DOT symbol (Yes/No)	Yes	N/A
DOT serial number	DOT MC3N 2HOW 2406	N/A

MOUNTED TIRE VS. AXLE RATING COMPARISON (AT SIDEWALL MAXIMUM INFLATION PRESSURE)

A. GAWR (KG) from certification label

B. (No. of tires) x (tire load rating (KG) from above table)

C. Is "B" equal to or greater than "A"? (Yes/No)

Front Axle

Rear Axle

7940

4720

8960

Yes

DATA SHEET 1...continued GENERAL TIRE AND RIM DATA

Test Vehicle: 2007 THOMAS SAF-T-LINER C2 SCHOOL BUS NHTSA No.: C70900
Test Lab: MGA RESEARCH CORPORATION Test Date: 03/2/2007

RIM MARKINGS

	Right Front	Spare
A. Source of published dimensions (letter designation)	Т	N/A
B. Rim Size	22.5 x 7.50	N/A
C. Does rim contain DOT symbol? (Yes/No)	Yes	N/A
D. Manufacturer's name, symbol or trademark (copy format)	Accuride	N/A
E. Date of manufacture or symbol	05 24 06	N/A
Do items A-C appear on weather side of rim? (Yes/No)	Yes	N/A
Letter height (not less than 3mm)	4 mm	N/A
Lettering (impressed or embossed)	Impressed	N/A
Are all rim markings legible? (Yes/No)	Yes	N/A
Do all markings comply with requirements? (Yes/No)	Yes	N/A
Rims are suitable for tires on vehicles? (Yes/No)	Yes	N/A

RIM MEASUREMENTS

	Right Front	Spare
Rim width	190.5 mm	N/A
Rim diameter	571.5 mm	N/A
Rim measurements same as rim markings? (Yes/No)	Yes	N/A

Results	Pass/Fail
TIRE AND RIM SELECTION (S5.1) Installed tires and rims are suitable for vehicle	PASS
Rim Marking (S5.2) Rims contain all required markings of proper dimensions	PASS

Remarks: None

ested: _______ Approved By: ____ Hickal >

Date: 03/22/2007

DATA SHEET 2 CERTIFICATION AND TIRE LABEL INFORMATION

Test Vehicle: 2007 THOMAS SAF-T-LINER C2 SCHOOL BUS NHTSA No.: C70900
Test Lab: MGA RESEARCH CORPORATION Test Date: 03/22/2007

LABEL INFORMATION

Label Design (Combined Certification and Tire Label):	Yes
Label Design (Separate Tire Information Label):	No
Label in English? (Yes/No)	Yes
Block capital letter and numbers are not less than 2.4 mm in height (yes/no):	Yes
Label is permanently affixed; describe method of affixing (rivets, glue, etc.)	Yes/ Glue
Does label text color contrast with background? (yes/no)	Yes
Location of Label(s) on the vehicle:	Right Side A-Post

TIRE AND RIM DATA FROM LABEL (FOR EACH GAWR/GVWR)

		,
GVWR: <u>11569</u> kg	Front Axle	Rear Axle
Tire Size	10R22.5	10R22.5
Rim Size	W/22.5 x 7.5	W/22.5 x 7.5
Recommended inflation pressure (KPa)	690	689
Are labeled rims suitable for labeled tires (Yes/No)¹	Yes	Yes
Referenced load rating at label recommended inflation pressure (KG) ¹	2360	2240

¹ Referenced source for tire/rim match and load rating data: <u>2007 Year Book Tire & Rim Assoc.</u>

CERTIFICATION/TIRE LABEL MAXIMUM CAPACITY COMPARISON

GVWR: <u>11569</u> kg	Front axle	Rear Axle
A.GAWR (kg) FROM CERTIFICATION LABEL	(C) 3630	(D) 7940
B.(No. of tires) x (Tire load rating (KG))	4720	8960
Is "B" equal or greater than "A"? (Yes/No)	Yes	Yes
Is (C) plus (D) equal to or greater than GVWR? (Yes/No)	Ye	S

RESULTS	PASS/FAIL
LABEL INFORMATION (S5.3)	
Vehicle has proper certification/tire information	PASS
label. Label tires at recommended inflation	F A33
pressure and rims are suitable for vehicle.	

Tested By:

Approved By: Hichael

Date: 03/22/2007

DATA SHEET 3 WEIGHT DISTRIBUTION

Test Vehicle: 2007 THOMAS SAF-T-LINER C2 SCHOOL BUS NHTSA No.: C70900
Test Lab: MGA RESEARCH CORPORATION Test Date: 03/22/2007

FLUID LEVELS								
Fuel:			FULL					
Coolant:				FULL				
Other Fluids: Washer fluid, brake	e fluid, etc.			FULL				
	TIRE PRE	SSURE	S					
Tire	Left Front	Right	Right Front Left Rear Right					
Tire Pressure (KPa)	690	69	0	690	690			
00	CUPANT AND	CARGO	D LOAI	os				
Total Occupant Load (kg): [# of designated seating position or 54 KG per student] Manufacturer's Rated Cargo Load	adult	2714 (1-driver, 49-students)						
[If not stated on vehicle or provided in owner's manual leave blank]								
Certified GVWR - Measured UVW - Total Occupant Load = Rated Cargo Load $\underline{11,569}$ KG - $\underline{7448}$ KG - $\underline{2714}$ KG = $\underline{1407}$ KG (must be positive)								
Describe Placement of Cargo: Down aisle and in the rear of the school bus								

WEIGHT DISTRIBUTION

ITEM	Tire or Vehicle Rating*	U\	CONDITION 1 CONDITION 2 UVW Cond. 1 + occupant (KG) (KG)		UVW Cond. 1 + oc		occupants	ccupants Cond. 2 + carg	
	(KG)	Measured	Overload	Measured	Overload	Measured	Overload		
Left Front Tire	2360	1256	No	1560	No	1474	No		
Right Front Tire	2360	1359	No	1710	No	1474	No		
Front Axle	3630	2615	No	3270	No	2948	No		
Left Rear Tire	4480	2361	No	3461	3461 No		No		
Right Rear Tire	4480	2472	No	3497	No	4309	No		
Rear Axle	7940	4833	No	6958 No		8618	Yes		
Total Vehicle	11569	7448	No	10228	No	11566	No		

^{*-} Vehicle and axle weight ratings (GVWR & GAWR) are located on the vehicle certification label plate. Vehicle tire load ratings are based upon the inflation pressure specified on the certification label plate for each respective axle, as determined from the appropriate tire manufacturer's specification table.

DATA SHEET 3...continued WEIGHT DISTRIBUTION

Test Vehicle: 2007 THOMAS SAF-T-LINER C2 SCHOOL BUS NHTSA No.: C70900
Test Lab: MGA RESEARCH CORPORATION Test Date: 03/22/2007

RESULTS	PASS/FAIL
Weight Distribution (49 CFR 567 Certification) Vehicle loaded with occupants and cargo does not exceed GVWR	PASS

Remarks: None

Tested By:

Date: 03/22/2007

____ Approved By:

8

SECTION 4 INSTRUMENTATION AND EQUIPMENT LIST

	Digital Caliper	Vehicle Scale	Tape Measure
Make	Mitutoyo	GSE	Stanley
Model	CD-6" CS	Pro-Weigh 84	Powerlock
Serial # (s)	0441288	004804	SN 278
Range	0-150mm	0 to 20,000 lb	0-8 m
Accuracy	.01mm	0.25% static	1 mm
Cal. Date	09/11/06	09/11/06	09/26/07
Cal. Due Date	09/11/07	09/11/07	03/26/07

SECTION 4...continued INSTRUMENTATION AND EQUIPMENT LIST

Test Vehicle: 2007 THOMAS SAF-T-LINER C2 SCHOOL BUS NHTSA No.: C70900 Test Lab: MGA RESEARCH CORPORATION Test Date: 03/22/2007

SCALE CALIBRATION SHEET

Confidential Operating Under A2						CALIBRA ertified Sca		N57	W1:	3640 Carmen A	Trada Sacral Venue,
	lenomonee Falls, \										
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SECTION 4...continued INSTRUMENTATION AND EQUIPMENT LIST

Test Vehicle: 2007 THOMAS SAF-T-LINER C2 SCHOOL BUS NHTSA No.: C70900
Test Lab: MGA RESEARCH CORPORATION Test Date: 03/22/2007

SCALE CALIBRATION SHEET

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LOCATION BUS AND TRUCK					ISION_5			UNIT			
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SECTION 5

PHOTOGRAPHS

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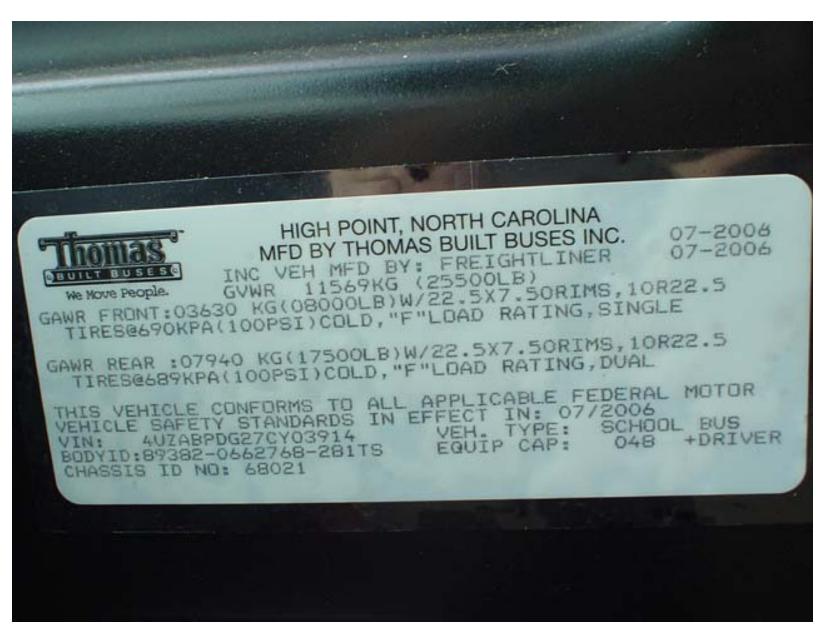
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Three-Quarter Frontal View of Left Side of Test Vehicle



Three-Quarter Rear View of Left Side of Vehicle





Tire Manufacturer



Tire Model Number



Tire DOT Serial Number



Tire Load Ratings and Tire Size Designation



Rim Manufacturer



Right Front Rim DOT, and Source of Published Information, Date of Manufacture Markings and Right Front Rim Size



Vehicle on Scales Doing Measurement of Front Axle Loads



Vehicle on Scales Doing Measurement of Rear Axle Loads



