REPORT NUMBER: 120-MGA-05-004

SAFETY COMPLIANCE TESTING FOR FMV88 NO. 120 TIRE SELECTION AND RIMS FOR MOTOR VEHICLES OTHER THAN PASSENGER CARS

Girardin Minibus Inc. 2005 Minibus NHTSA No. C50902

PREPARED BY:
MGA RESEARCH CORPORATION
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BURLINGTON, WI 53105



Final Report Date: July 19, 2006

FINAL REPORT

PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
ENFORCEMENT
OFFICE OF VEHICLE SAFETY COMPLIANCE
400 SEVENTH STREET, SW, ROOM 6115 (NVS-224)
WASHINGTON, D.C. 20590

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Date: July 19, 2005

Reviewed by:

John Roberts, Project Engineer

Date: July 19, 2005

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7/26/05

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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 MY2005 Girardin Minibus School Bus, NHTSA No.: C50902, in accordance with the requirements stated in Federal Motor Vehicle Safety Standard (FMVSS) No. 120, "Tire Selection and Rims for Motor Vehicles other than Passenger Cars."

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 2005 Girardin Minbus School Bus conducted at MGA Research Corporation - Wisconsin Operations 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 Axia 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 axia 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 Nineteen passengers (one adult driver and eighteen 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

Test Lab: MGA Research-Wisconsin Operations Contract No: DTNH22-02-D-01057

Vehicle Make/Model: Girardin/Minibus MY: 2005

NHTSA No.: C50902 VIN: 1FDSE35L85HA02436 Vehicle Type: School Bus

Incomplete Veh. Make/Model: Ford

Designated Seating Capacity: 19, (1 driver, 18 passengers)

Dealer Installed Optional Accessories: None Noted

Summary

Requirements	PASS/FAIL
TIRE AND RIM SELECTION (S5.1) Installed tires and rims are sultable for vehicle	PASS
Rim Marking (35.2) Rims contain all required markings of proper dimensions	PASS
LABEL INFORMATION (85.3) Vehicle has proper certification/tire information label. Label tires at recommended inflation pressure and rims are suitable for vehicle.	PASS
Weight Distribution (49 CFR 567 Certification) Vehicle loaded with occupants and cargo does not exceed GVWR	PASS
Results: Test data indicates compliance with FMVSS 120	PASS

SECTION 3 COMPLIANCE TEST DATA

FMV88 120 - DATA SHEET 1 GENERAL TIRE AND RIM DATA

Test Vehicle:

2005 Girardin Minibus

Test Lab:

MGA Research-Wisconsin Operations

NHTSA No.:

C50902

Test Date:

8/27/05

GENERAL DATA

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

TIRE DATA FROM SIDEWALL

	RIGHT FRONT	SPARE
Manufacturer	Harikook	
Brand	Dynopre AS	
Tire Size	LT245/75R16	
Maximum Tire Load Rating (KG)	1380-Single 1260-Dual	
De-rated Tire Load Rating (KG)	N/A	
Maximum Inflation Pressure (KPA)	560	
Tire has DOT symbol (Yes/No)	Yes	
DOT serial number	DOT TTXD SINH	

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

	FRONT AXLE	REAR AXLE
A. GAWR (KG) from certification label	2086	2759
B. (No. of tires) x (tire load rating (KG) from above table)	2760	2700
C. is "B" equal to or greater than "A"? (Yes/No)	Yes	Yes

FMVSS 120 - DATA SHEET 1...continued GENERAL TIRE AND RIM DATA

Test Vehicle:

2006 Girardin Minibus

Test Lab:

MGA Research-Wisconsin Operations

NHT8A No.:

C50902

Test Date:

8/27/05

RIM MARKINGS

	RIGHT FRONT	SPARE
Source of published dimensions (letter designation)	T	
Rim Size	16 x 7	
Does rim contain DOT symbol? (Yes/No)	Yes	
Manufacturer's name, symbol or trademark (copy format)	Accuride	
Date of manufacture or symbol	07 25 04	
Do items A-C appear on weather side of rim? (Yes/No)	Yes	
Letter height (not less than 3mm)	Yea - 5 mm	
Lettering (impressed or embossed)	Impressed	
Are all rim markings legible? (Yes/No)	Yes	
Do all markings comply with requirements? (Yes/No)	Yes	
Rims are suitable for tires on vehicles? (Yes/No)	Y₩	

RIM MEASUREMENTS

	RIGHT FRONT	SPARE
Rim width	175 mm (7")	
Rim diameter	813 mm (18 ⁻)	
Rim measurements same as rim markings? (Yes/No)	Yes	

RESULTS	PASS/FAIL
TIRE AND RIM SELECTION (85.1) Installed tires and rims are suitable for vehicle	PASS
Rim Marking (S6.2) Rims contain all required markings of proper dimensions	PASS

Remarks:

NONE

Tested By:

lete: June 27, 2005

Approved By:

FMV88 120 - DATA SHEET 2 CERTIFICATION AND TIRE LABEL INFORMATION

Test Vehicle:

2006 Girardin Minibus

Test Lab:

MGA Research-Wisconsin Operations

NHTSA No.:

C50902

Test Date:

6/27/06

LABEL INFORMATION

Label Design (Combined Cartification and Tire Label):	Yes
Label Design (Separate Tire Information Label):	/ N/A
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.)	glue
Does label text color contrast with background? (yes/no)	Yes
Location of Label(s) on the vehicle:	Above Driver's Door

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

GVWR: 4354_KG	FRONT AXLE	REAR AXLE
Tire Size	LT245/75R16	LT245/75R16
Rim Size	16 x 7	18 x 7
Recommended inflation pressure (KPa)	380	550
Are labeled rims suitable for labeled tires (Yes/No)*	Yes	Yee
Referenced load rating at label recommended inflation pressure (KG) ¹	1241	1350

Referenced source for tire/rim match and load rating data: 2005 Tire and Rim Assoc.

CERTIFICATION/TIRE LABEL MAXIMUM CAPACITY COMPARSION

GVWR: 4354 KG	FRONT AXLE	REAR AXLE
A.GAWR (kg) FROM CERTIFICATION LABEL	(C) 2086	(D) 2759
8.(No. of tires) x (Tire load rating (KG))	2482	2760
Is "B" equal or greater than "A"? (Yes/No)	Yes	Yes
is (C) plus (D) equal to or greater than GVWR? (Yes/No)	Y€	6

RESULTS	PASS/FAIL
LABEL INFORMATION (85.3)	
Vehicle has proper certification/tire information	PASS
label. Label tires at recommended inflation	
pressure and rims are sultable for vehicle.	

Tested By:

Old Approved By:

Date: June 27, 2005

FMV88 120 - DATA SHEET 3 WEIGHT DISTRIBUTION

Test Vehicle:

2005 Girardin Minibus

Test Lab:

MGA Research-Wisconsin Operations

NHTSA No.:

C50902

Test Date:

8/27/05

	Fluid I	Levels					
Fuel:		FULL					
Coolant					FULL.		
Other Fluids: Washer fluid, brake fluid, etc.					FULL		
	Tite Pro	esures		·			
Tire	Left Front	Right Front	Le	Left Rear Right Re 550 550			
Tire Pressure (KPa)	380	380	·.				
	Occupant and	Cargo Loads			<u> </u>		
Total Occupant Load (kg): [# of designated seating postudent]	eltlone x 68 KG per	adult or 54 KG	per	(1-drive	1040 r, 18-students)		
Manufacturer's Rated Cargi [If not stated on vehicle or p		manual leave bi	ank]	· · · · ·	N/A		
Certified GVWR - M <u>4354</u> KG - <u>2994</u> KG - <u>1040</u>			ad = R	ated Can	go Load		
Describe Placement of Cary	jo: C	enter of size Fo	ore to	Aft distrib	utton		

Weight Distribution

ПЕМ	Tire or Vehicle Rating*	CONDITION 1 UVW (KG)		CONDI Cond. 1 + (Ki	occupants	CONDITION 3 Cond. 2 + cargo (KG)		
	(KG)	Measured	Overload	Measured	Overload	Measured	Overload	
Left Front Tire	1241	670	NO	808	NO	826	. NO	
Right Front Tire	1241	728	NO	769	NO	778	NO	
Front Axie	2086	1396	NO	1574	NO	1804	NO	
Left Rear Tire	1380	606	NO	1294	NO	1432	YES**	
Right Rear Tire	1380	792	NO	1182	NO	1314	NO	
Rear Axie	2759	1598	NO	2478	NO	2746	NO	
Total Vehicle	4354	2994	NO	4052	NO	4350	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.

^{** -} For condition 3, the target total vehicle load was the vehicle's GVVR. The amount and placement of the cargo ballast was arbitrary. The total cargo ballast load could have been reduced and redistributed to ensure that none of the tire, axie, or vehicle ratings were exceeded.

FMV88 120 - DATA SHEET 3...continued WEIGHT DISTRIBUTION

Test Vehicle:

2005 Girardin Minibus

Test Lab:

MGA Research-Wisconsin Operations

NHTSA No.:

C50902

Test Date:

3/27/08

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

Remarks:

Tested By:

lune 27, 2005

LOLL Approved By:

SECTION 4 INSTRUMENTATION AND EQUIPMENT LIST

Test Vehicle: Test Lab: 2005 Girardin Minibus

MGA Research-Wisconsin Operations

NHTSA No.:

C50902

Test Date:

6/27/05

	Digital Caliper	Vehicle Scale	Tape Messure
Make	Mitutoyo	G8E	Stanley
Model	CD-6" CS	Pro-Weigh 84	Powertock
Serial # (s)	0441288	212091/212092	8N152
Range	0-150mm	0 to 20,000 to	0-8 m
Accuracy	.Q1mm	0.25% static	1 mm
Cal. Date	4/1/05	8/10/05	5/31/05
Cal. Due Date	10/1/05	12/10/05	11/21/05

SECTION 4...continued INSTRUMENTATION AND EQUIPMENT LIST

Test Vehicle: Test Lab: 2005 Girardin Minibus

MGA Research-Wisconsin Operations

NHTSA No.: Test Date:

C50902

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SECTION 4...continued INSTRUMENTATION AND EQUIPMENT LIST

Test Vehicle: Test Lab: 2005 Girardin Minibus

MGA Research-Wisconsin Operations

NHTSA No.: Test Date:

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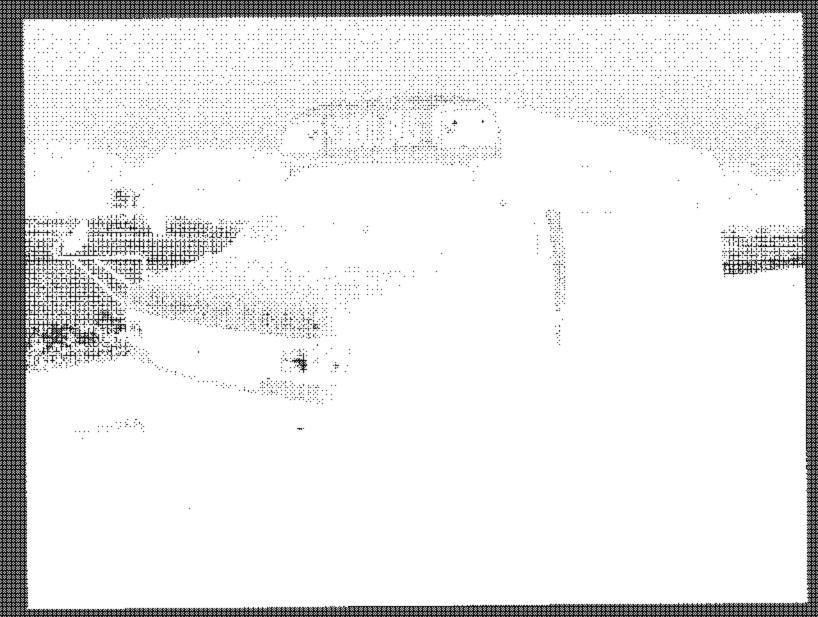
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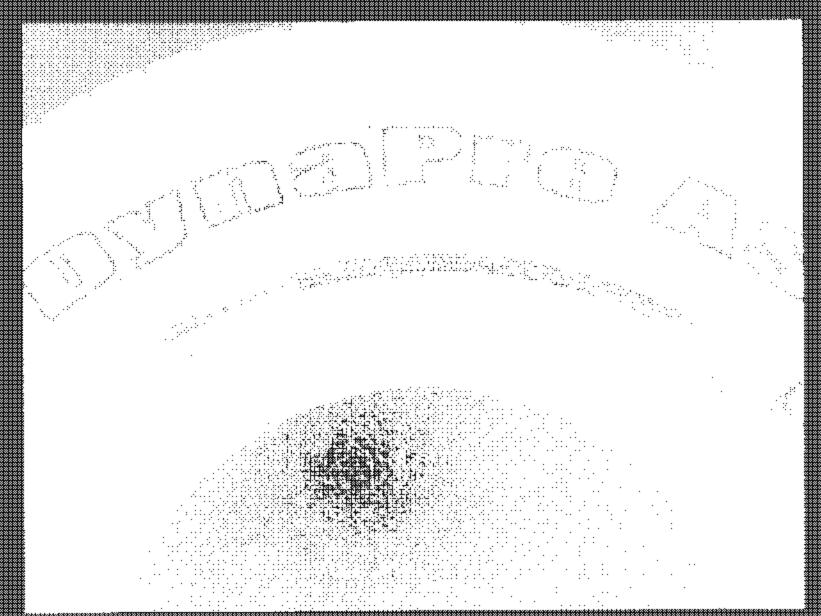
Test Vehicle: Properties 2006 Strandin Mindous School But

NHTSANG C50002

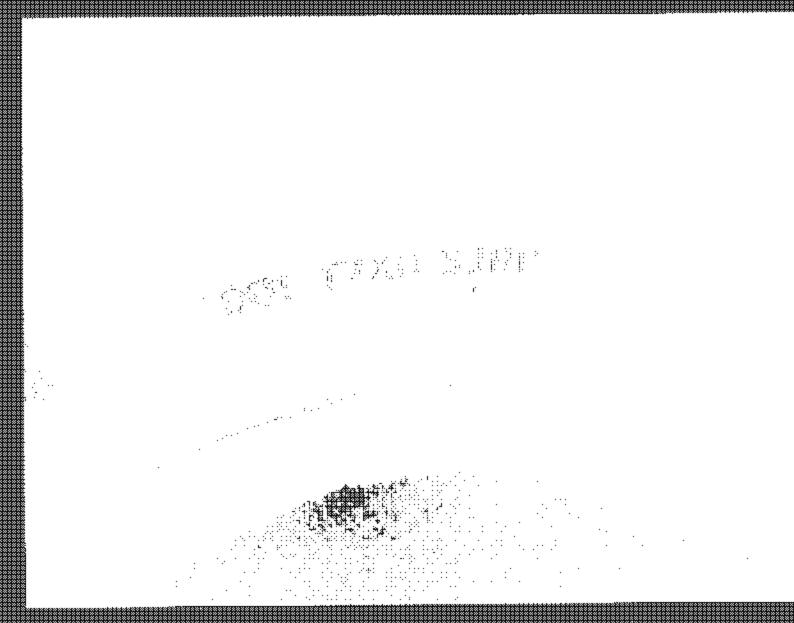
2005 Girardin Minibus School Bus FMNSS (20

NHTSA No. C50902





NHTSA No. C58902



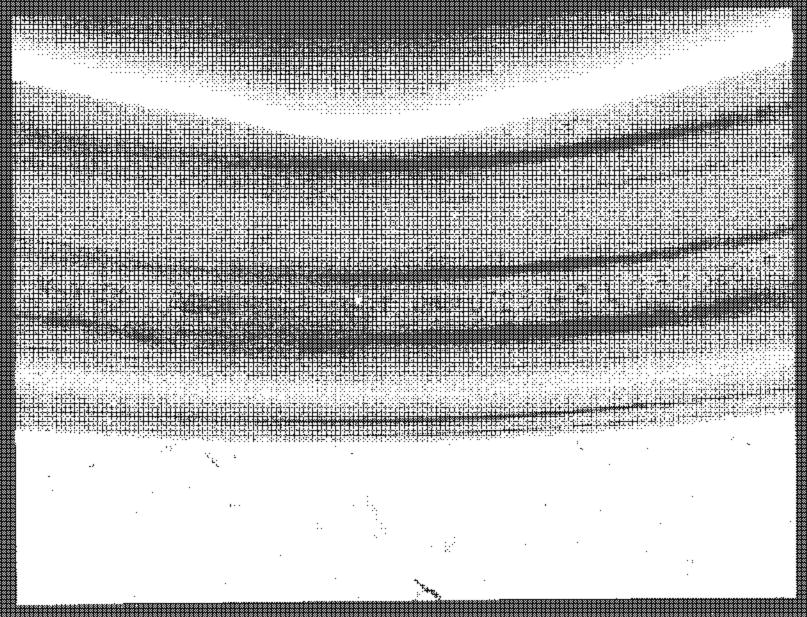
Test Vehicle: Procedure:

2008 Girardin Minibus School Sus

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NHTSA No. C50902







NHTSA No.: C50982