

TEST REPORT

Applicant Name & Address: GUANGZHOU HOBART LIGHTS LIMITED
No. 1 Chuangjia Road, Baiyun District, Guangzhou City,
Guangdong Province, China, 510080

Manufacturer Name & Address: GUANGZHOU HOBART LIGHTS LIMITED
No. 1 Chuangjia Road, Baiyun District, Guangzhou City,
Guangdong Province, China, 510080

Object: Beacon Magnetic Force & Suction Test

Product Name: Magnetic Base Beacon

Model No.: B series

Variants: B5-1, B5b-1, B6-1, B6-3, B6b-1, B7-1, B7b-1

Trade mark: HOBART LIGHT

Electrical Rating: DC 12/24V

Date Received: 12-July-2023

Date Test Conducted: 19-July-2023

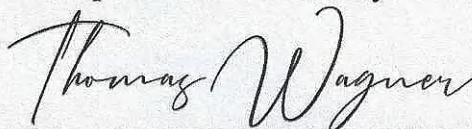
Report No.: 202371914510

Prepared by: LSE AUTOMOBIL

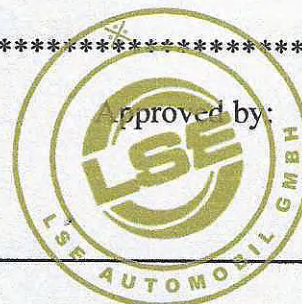
Test Standard(s): DIN 14620 - 6.4

Test Result: Pass

Prepared and Checked By:



Project Engineer



5-August-2023

Issued Date

Note: The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested.



Report No.: 202371914510
Version No.: V1

1. Description of version

Report No.	Version No.	Issue Date	Description	Approved
202371914510	V1	25-July-2023	Original	Valid

2. Test summary

Test Item	Test Method	Result
Durability tests of magnetic beacons for high-speed	DIN 14620 - 6.4	Pass
Durability tests of magnetic beacons for emergency braking		Pass
Remark: 1. The symbol "N/A" in this document means Not Applicable. 2. When determining the test results, measurement uncertainty of tests has been considered.		

Testing the durability of magnetic beacons & vacuum sucker base beacon.
In cooperation with the applicant the durability was tested by a high speed of 200km/h and emergency braking test.

3. Preliminary remark

The test included the data acquisition for masses and dimensions, the dynamic high speed and braking tests.
The test comprised no checkup for electronic components.

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4. Technical details of the appraised beacons

Technical documents	:	Mounting Instruction
Automotive part	:	LED Beacon
Type	:	Magnetic Beacon & Vacuum Sucker Beacon
Serial No.	:	B5-1, B5b-1, B6-1, B6b-1, B7-1, B7b-1, B6-3
Number of magnetic foots	:	1
Size / Weight / Magnets detail	:	View Chart 1

Chart 1

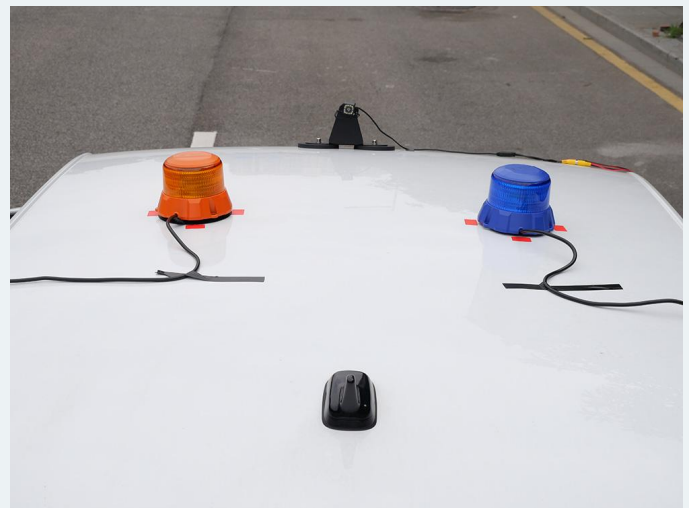
Samples No.	Specification	Picture	Base Picture
B5-1	Sample No.: B5-1 Size: 11x110x56mm Weight: 610g Magnet base: Built-in magnet		
B5b-1	Sample No.: B5b-1 Size: 11x110x56mm Weight: 610g Magnet base: Built-in magnet		
B6-1	Sample No.: B6-1 Size: 123x123x96mm Weight: 832g Magnet base: D66 Magnet with sucker		
B6b-1	Sample No.: B6b-1 Size: 123x123x96mm Weight: 832g Magnet base: D88 Magnet		
B7-1	Sample No.: B7-1 Size: 123x123x133mm Weight: 1037g Magnet base: D88 Magnet		
B7b-1	Sample No.: B7b-1 Size: 123x123x133mm Weight: 1037g Magnet base: D88 Magnet		
B6-3	Sample No.: B6-3 Size: 139x139x138mm Weight: 1057g Base: 116mm diameter vacuum sucker		

5. Test protocol

Test vehicle	:	Volkswagen
Measuring and testing equipment	:	Measuring and evaluation system
Velocity calibration	:	Speed sensor
Other auxiliary instruments	:	Roof monitoring, Scale, Measuring tape
Weather Conditions	:	Sunny
Air temperature (°C)	:	27°C
Wind velocity (m/s)	:	2-4 m/s
Date of test	:	19-July-2023

6. Mounting and preparation

The beacons was mounted at a dry and clean roof of the test vehicle.
Easy installation with magnetic foot. Afterwards was checked if the complete magnetic surface is in contact with the roof.





6. Test result









No.	High Speed Test	Position after test	Conclusion
B5-1, B5b-1	201km/h	the position remains unchanged	Test pass
B6-1, B6b-1	203km/h	the position remains unchanged	Test pass
B7-1, B7b-1	201km/h	the position remains unchanged	Test pass
B6-3	202km/h	the position remains unchanged	Test pass







The Braking test was made from different speeds with an emergency brake.

No.	Emergency Brake Test	Position after test	Conclusion
B5-1, B5b-1 B6-1, B6b-1 B7-1, B7b-1 B6-3	40km/h	the position remains unchanged	Test pass
	60km/h	the position remains unchanged	Test pass
	80km/h	the position remains unchanged	Test pass
	100km/h	the position remains unchanged	Test pass

Remarks

Not applicable

Sample No.	Position before testing	Position after testing
B5-1		
B5b-1		
B6-1		
B6b-1		

Sample No.	Position before testing	Position after testing
B7-1		
B7b-1		
B6-3		



Statement

1. The report is invalid without "special stamp for inspection and testing".
2. Failure to affix "special seal for inspection and testing" to the copy report is invalid, and some copies are invalid.
3. The report is invalid without the signature and seal of the person preparing, reviewing and approving it.
4. The report is invalid if altered.
5. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.
6. This test is only responsible for incoming samples, and the report is only valid for this test.

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