



BAIYUN
Brake Expert

TEST REPORT

ZHENGZHOU BAIYUN
INDUSTRIAL CO.,LTD

www.sinobrake.com





中国认可国际互认检测
TESTING
CNA S L6622



Brake Dynamometer Test Report

Link Test Report #: 220165-01
Test Description: D840 SAE J2522-2013
Customer Reference: N/A
Program #: LC0132A1 (ID 134).SPT
Platform: D840
Lining Material: 067645 , 067646
Test Date: 04/04/2022

Requested By:

**Zhengzhou Baiyun
Hu Hai**

白云实业

Tested By:

Testing Coordination and Facility

Link Transportation Testing Technology (Shanghai) Co., Ltd
Building No.2, 778 Zhao Xian Road, Jiading District, Shanghai
Shanghai, 201821

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Phone: (021) 5916-5656

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D840 SAE J2522-2013

Test Information

Customer Name Zhengzhou Baiyun
Requestor Hu Hai
Test Procedure SAE J2522-2013
Program Number LC0132A1 (ID 134).SPT
Test Coordinator Nicky Mao
Technician ZHU XIAO DONG
Dynamometer 5137
Parts received, start and end dates N/A, 04/04/2022 - 04/09/2022
Datalog, Template version 3.41, 1.25

Setup Details

Fixture Identification LC-F-0004
Fixture Design L1 - Knuckle
Drive adapter method N/A

Dynamometer Information

Rolling Radius 307.0 mm
Gross Axle Weight N/A kg
Required Wheel Load 0.0 kg
Actual Wheel Load 719.4 kg
Required Inertia 67.8 kg·m²
Actual Inertia 67.4 kg·m²

Brake Information

Brake Platform D840
Brake Type DISC
Brake Size 288*25
Brake ID Number New
Drum/Rotor Type Vented
Drum/Rotor Finish NEW
Pri/Lead/Inner Lining 067645
Sec/Trail/Outer Lining 067646
Orientation LEFT
Effective Radius 122.00 mm
Number of Pistons/Cyls 1
Coefficient Multiplier 0.016
Piston Diameter 57.0 mm
Holdoff Pressure 50 kPa

Comments:

N/A

Processed by: Nicky Mao

Signature :

Nicky Mao

2019.04.10

10:14:26 +08'00'

Date

4/10/2022

Approved by: Michael Yang

Signature :

Michael Yang

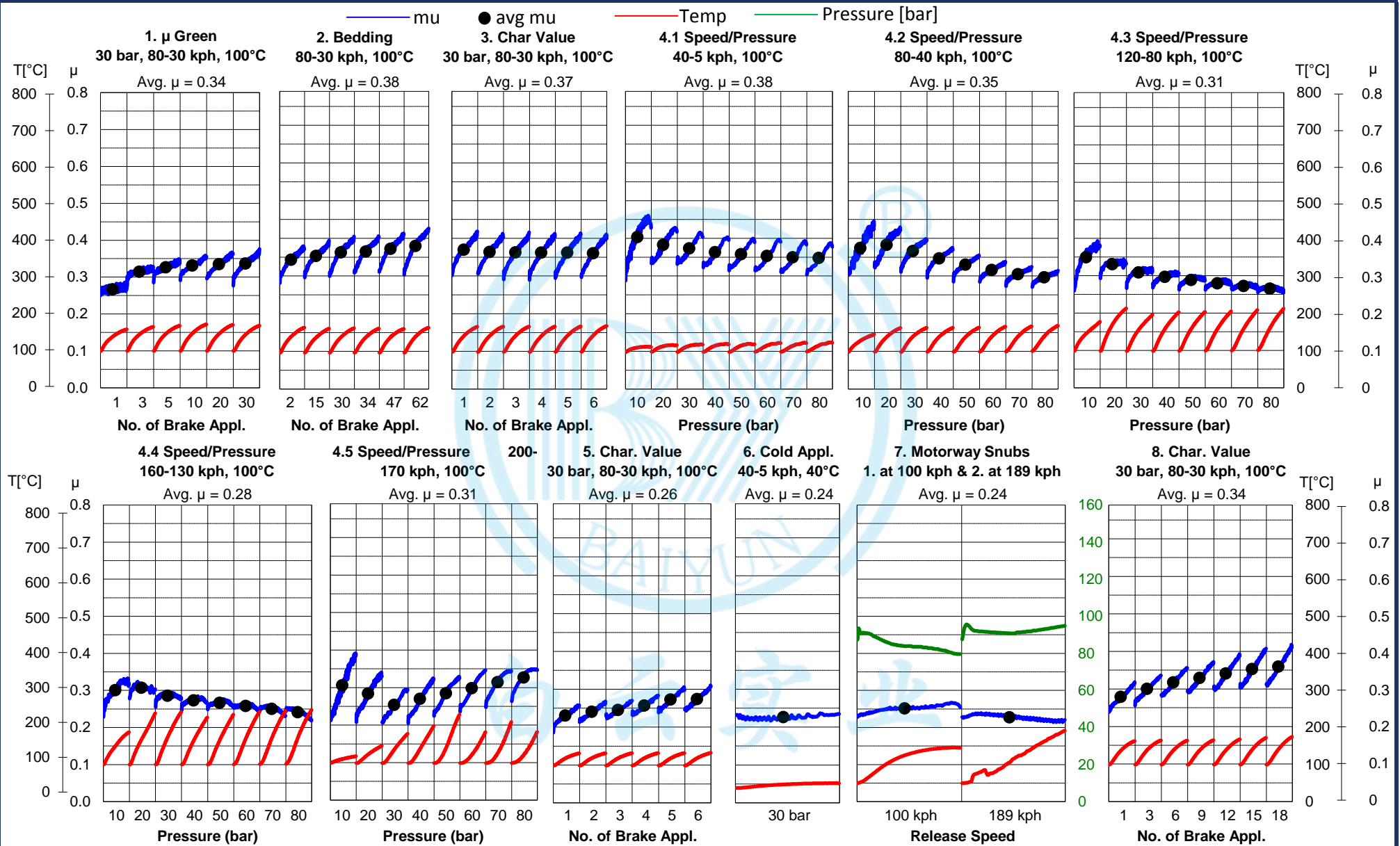
2019.04.10

21:41:28 +08'00'

Date

4/10/2022

Data applicable to the materials tested. Report can be copied in full.
Bilateral uncertainty of measurements 0.55% of FS. Coverage factor of 2. Confidence of 95%. Details available upon request.



Test Description:

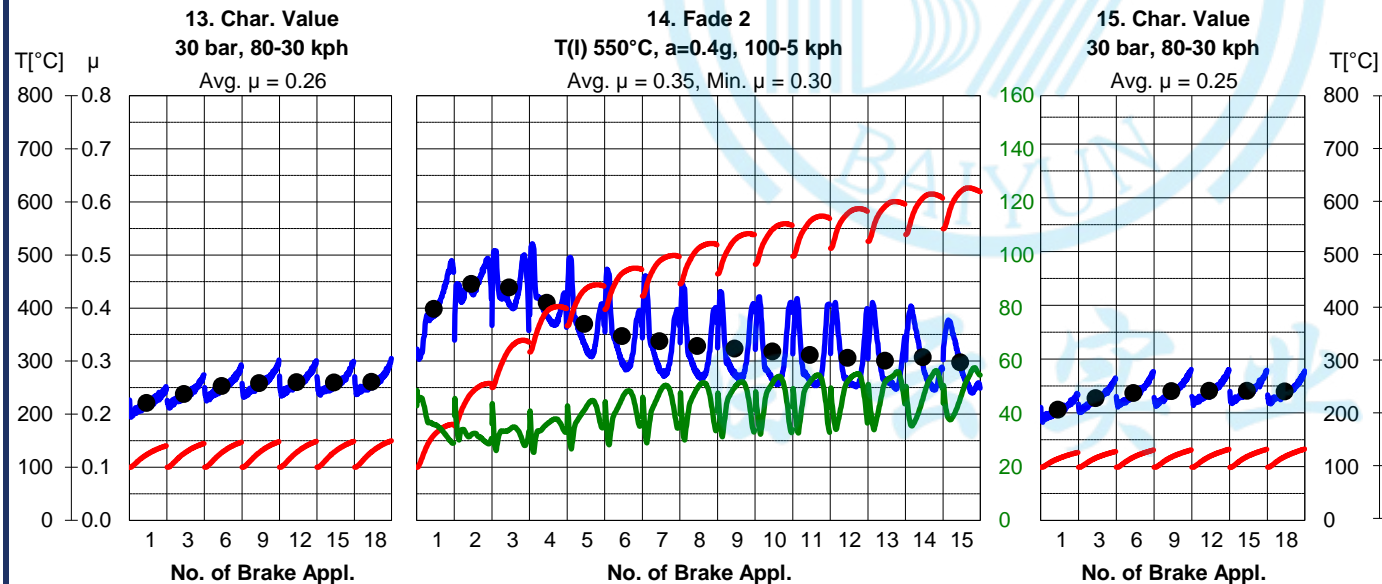
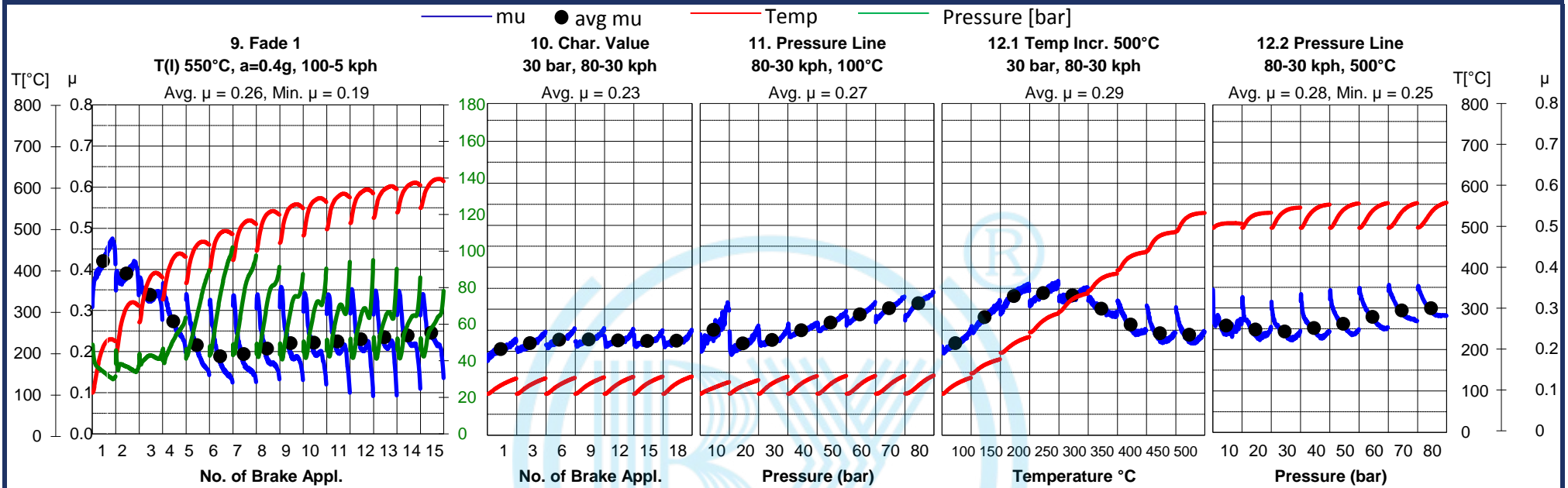
D840 SAE J2522-2013

Rotor
Primary Lining
Secondary Lining

New
067645
067646

Effective Radius
Piston Diameter
Actual Inertia
Actual Wheel Load
Rolling Radius

122.00 mm
1 x 57.0 mm
67.4 kg·m²
719.4 kg
307.0 mm



Characteristic values μ			Avg.	Min.
Char. Value	(3)	μ_{OP6}	0.37	
Speed/Pressure	(4.3)	μ_{V120}	0.32	
Speed/Pressure	(4.5)	μ_{Vmax}	0.28	
Char. Value	(5)	μ_{OP6}	0.26	
40°C Brake Appl.	(6)	μ_{T40}	0.24	
Motorway Appl. 2	(7)	μ_{MW2}	0.22	
Char. Value	(8)	μ_{OP18}	0.34	
Fade 1	(9)	μ_{F1}		0.19
Char. Value	(10)	μ_{OP18}	0.23	
Temperature	(12)	μ_{T500}		0.23
Char. Value	(13)	μ_{OP18}	0.26	
Fade 2	(14)	μ_{F2}		0.30
Char. Value	(15)	μ_{OP18}	0.25	
			μ_{nom}	0.28
			μ_{min}	0.19

Test Description: D840 SAE J2522-2013	Rotor	New	Effective Radius	122.00 mm
	Primary Lining	067645	Piston Diameter	1 x 57.0 mm
	Secondary Lining	067646	Actual Inertia	67.4 kg·m ²
			Actual Wheel Load	719.4 kg
			Rolling Radius	307.0 mm

Test Request #:
220165-01

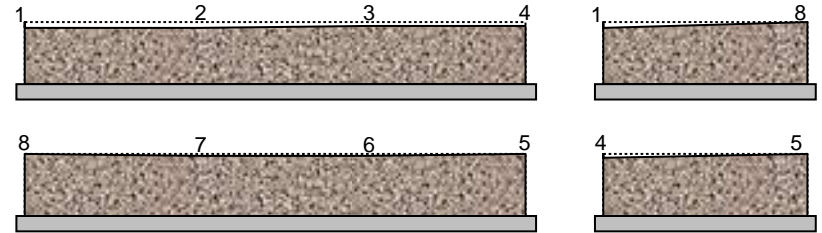


Customer Ref.:
N/A

Inboard Pad Thickness (mm)

	1	2	3	4	5	6	7	8	Average	Mass (gram)
Initial	18.20	18.21	18.20	18.15	18.11	18.17	18.16	18.19	18.17	501.6
Final	17.62	17.64	17.71	17.73	18.10	18.05	18.05	18.09	17.87	494.0
Loss	0.58	0.57	0.49	0.42	0.01	0.12	0.11	0.10	0.30	7.6

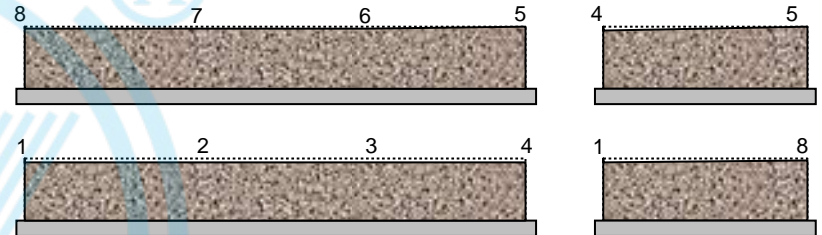
Tangential 36.8% Radial 83.5% Cup -14.0%



Outboard Pad Thickness (mm)

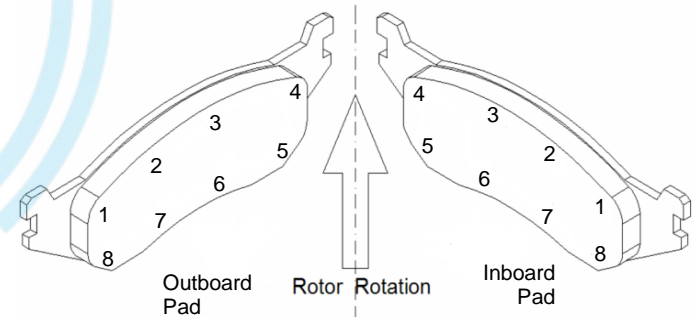
	1	2	3	4	5	6	7	8	Average	Mass (gram)
Initial	18.34	18.36	18.35	18.29	18.27	18.32	18.31	18.29	18.32	476.1
Final	17.84	17.95	17.99	17.93	18.19	18.17	18.11	18.10	18.04	468.7
Loss	0.50	0.41	0.36	0.36	0.08	0.15	0.20	0.19	0.28	7.4

Tangential 36.2% Radial 62.0% Cup 0.9%



Rotor Thickness (mm)

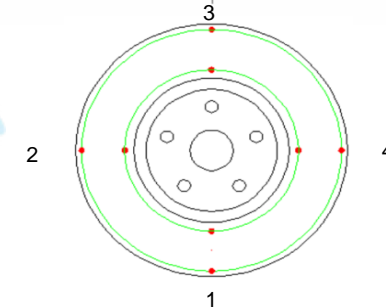
	Inner				Outer				Average	Mass (gram)
	1	2	3	4	1	2	3	4		
Initial	24.86	24.86	24.86	24.86	24.87	24.86	24.86	24.87	24.86	7,824.8
Final	24.85	24.85	24.85	24.85	24.85	24.85	24.85	24.85	24.85	7,819.3
Loss	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.02	0.01	5.5



MicroFinish (µm)

Initial
Final

*Tangential wear =Avg(1,8) - Avg(4,5)
 *Radial wear =Avg(1,2,3,4) - Avg(5,6,7,8) * reported as percentage of max
 *Cup wear =Avg(1,8,4,5) - Avg(2,3,7,6)



Test Description

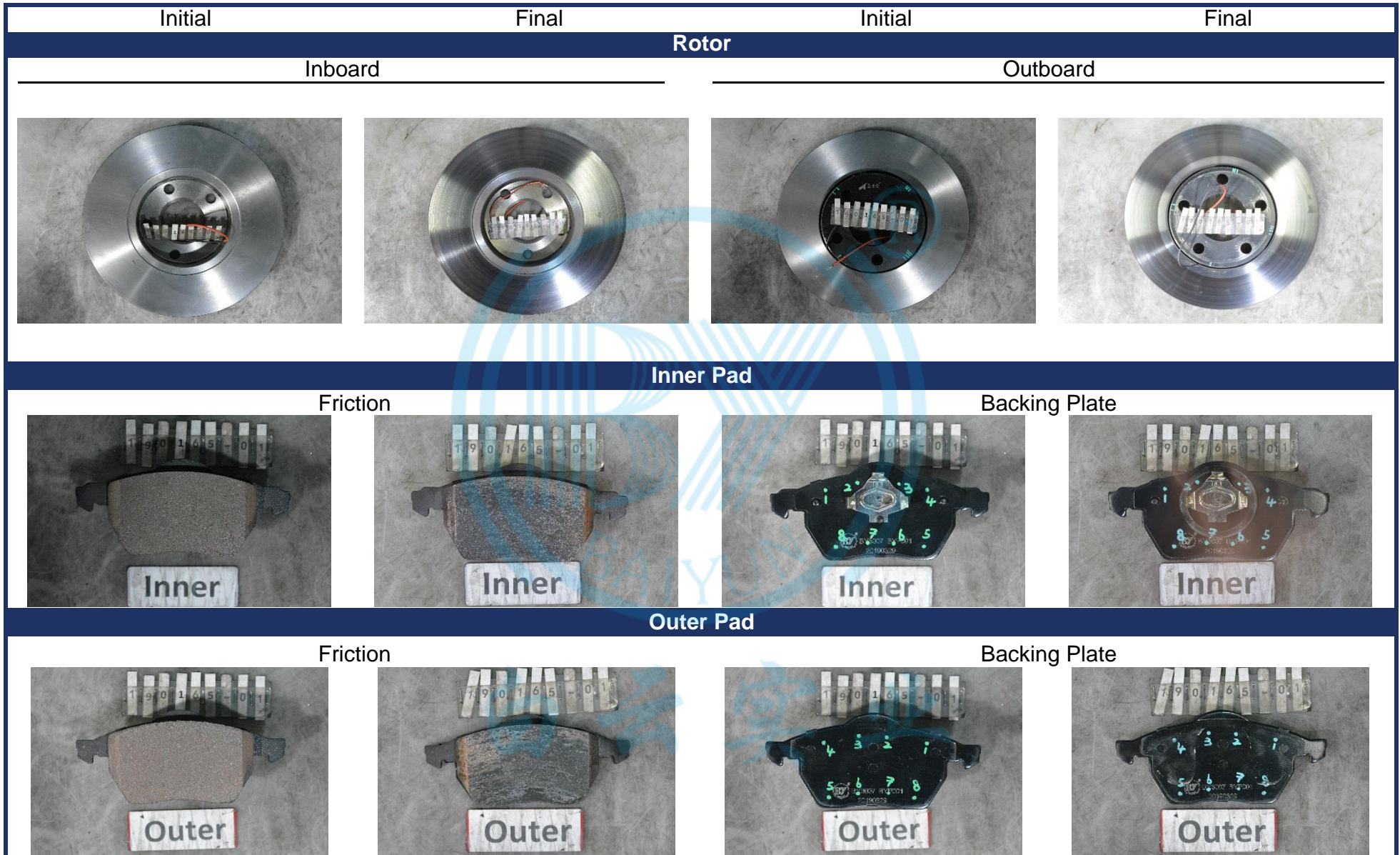
D840 SAE J2522-2013

Rotor
Primary Lining
Secondary Lining

New
067645
067646

Effective Radius
Piston Diameter
Actual Inertia
Actual Wheel Load
Rolling Radius

122.00 mm
1 x 57.0 mm
67.4 kg·m²
719.4 kg
307.0 mm

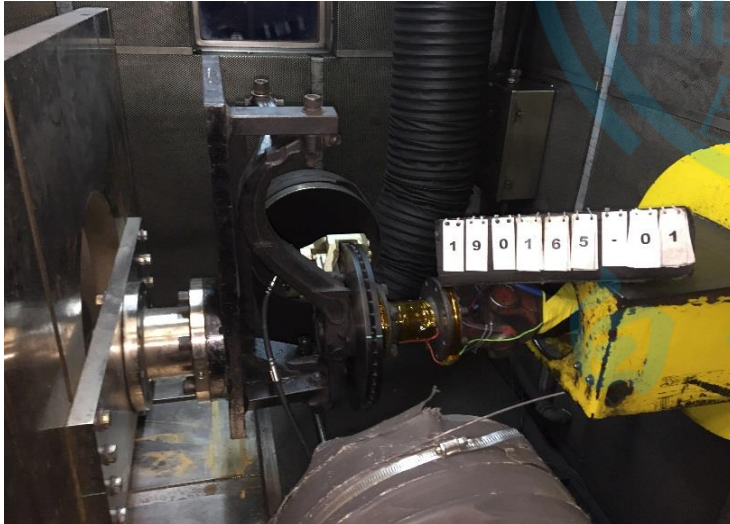
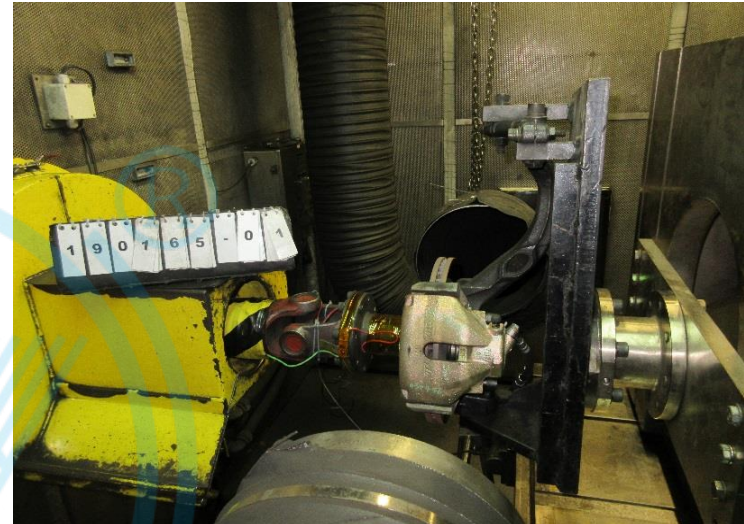
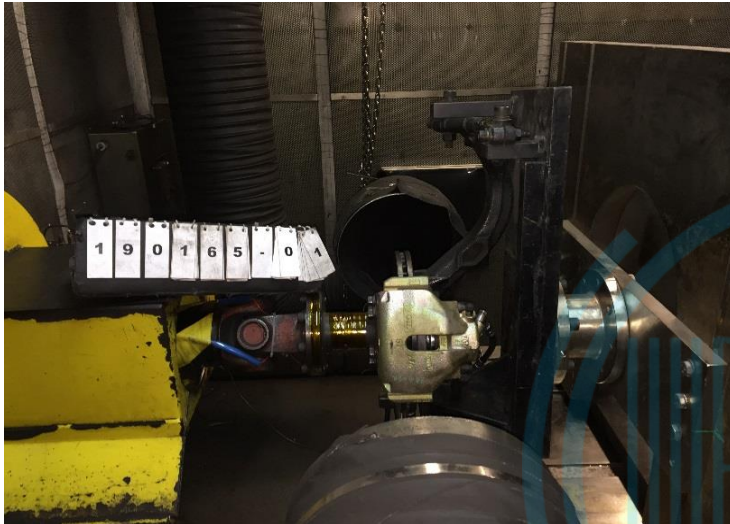


Test Description: D840 SAE J2522-2013	Rotor	Effective Radius	122.00 mm
	Primary Lining:	New Piston Diameter	1 x 57.0 mm
	Secondary Lining:	067645 Actual Inertia	67.4 kg-m ²
		067646 Actual Wheel Load	719.4 kg
		Rolling Radius	307.0 mm

Initial

Setup

Final



Test Description:

D840 SAE J2522-2013

Rotor
Primary Lining:
Secondary Lining:

	Effective Radius	122.00 mm
New	Piston Diameter	1 x 57.0 mm
067645	Actual Inertia	67.4 kg·m ²
067646	Actual Wheel Load	719.4 kg
	Rolling Radius	307.0 mm