



Brake Dynamometer Test Report

Link Test Report #: 112305-2-1
Test Description: FMVSS-121
Purpose of Test: FMVSS-121 PERFORMANCE
Customer Reference:
Program #: UV100975
Platform: MERITOR DRIVE
Lining Material: MERITOR MA2301
Test Date: 10/16/25 - 10/20/25

Requested By:

TBP Auto
Thomas Heller
288 Tran Thai Tong Street
Tien Phong Ward
Thai Binh City, THAI BINH PROVINCE
Viet Nam

Tested By:

Link Engineering Company
Dearborn Technical Center
401 Southfield Rd
Dearborn, MI 48120
www.linkeng.com
(313) 625-4000



MERITOR DRIVE FMVSS-121

Test Information

Customer Name	TBP Auto
Requestor	Thomas Heller
Test Procedure	FMVSS-121
Program Number	UV100975
Test Coordinator	Jeff Lesko
Technician	M H
Dynamometer	D0006
Parts received, start and end dates	10/16/25 - 10/20/25
Template Name and Version	FMVSS-121, 1.31
Datalogger version	4.01

Setup Details

Fixture Identification	0074
Fixture Design	CV - Drive
Drive adapter method	Link Standard

Dynamometer Information

Rolling radius	20.80 inch
Gross Axle Weight	23000.00 lb
Required Wheel Load	11500.00 lb
Actual Wheel Load (Mounted + Simulated = Actual)	11625.49 lb + -124.21 lb (Section 20) = 11501.27 lb
Required Inertia	1074.00 slug·ft ²
Actual Inertia (Mounted + Simulated = Actual)	1086.12 slug·ft ² + -9.83 slug·ft ² (Section 20) = 1076.29 slug·ft ²

Brake Information

Brake Platform	MERITOR DRIVE
Brake Type	DRUM / AIR
Brake Size	16.5 X 7
Drum ID Number	054.1640
Drum Type	CAST
Drum Finish	NEW
Drum Brake Hardware Part Number	N/A
Drum Brake Hardware Condition	N/A
Leading Lining ID	MERITOR MA2301
Leading Lining Comment	
Trailing Lining ID	MERITOR MA2301
Trailing Lining Comment	
Orientation	Right
Lining FMSI ID (Leading / Trailing)	4707 / 4707
Air Chamber (Type/Size)	MGM / 30/30" LONG STROKE
Slack Adjuster (Type/Length/Manufacturer)	AUTOMATIC / 6.0 inch / HALDEX
Vehicle and Axle Classification	Bus, Truck & Tractor Drive with Antilock
FMVSS-121 Performance Ratings	
Brake Retardation	Pass
Brake Power	Pass
Brake Recovery	Pass
Overall Rating	Pass

Comments:

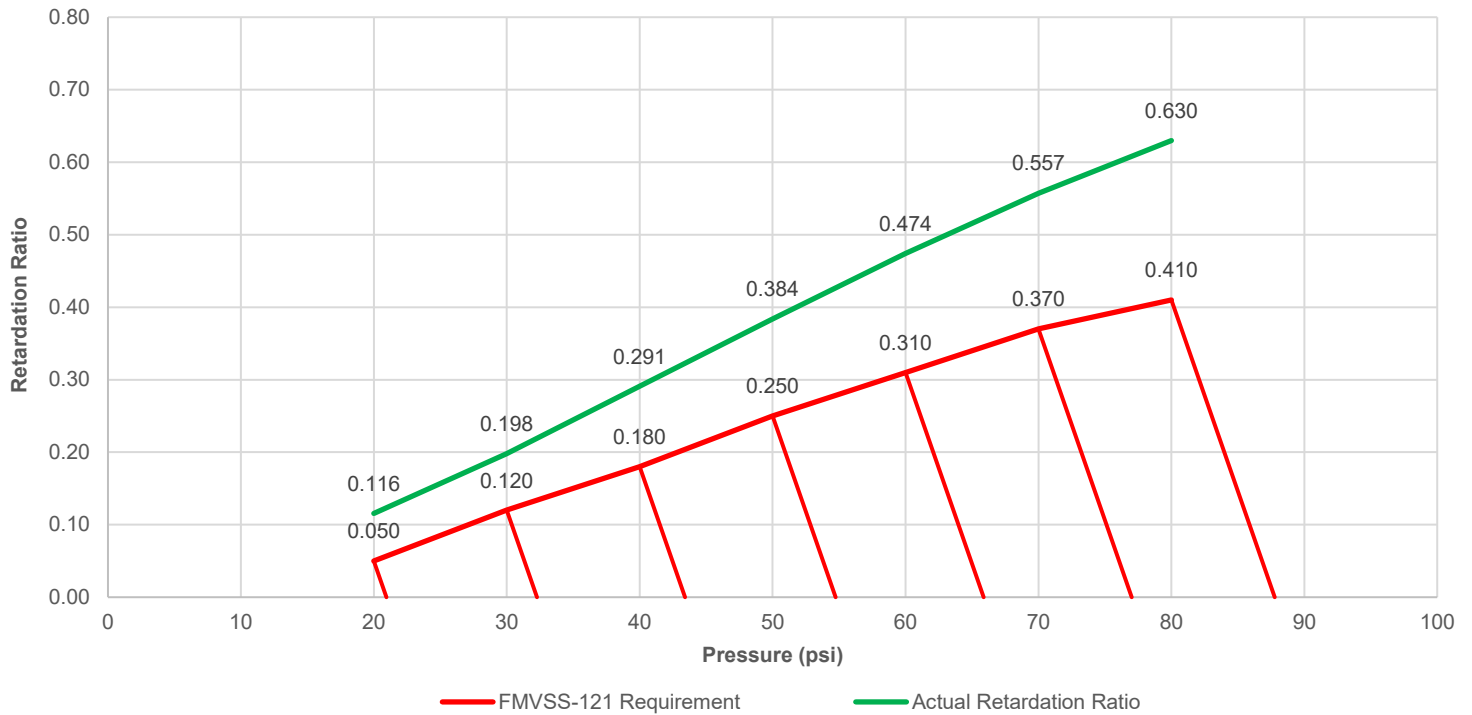
Authorized by: Jeff Lesko

Title: Test Engineer

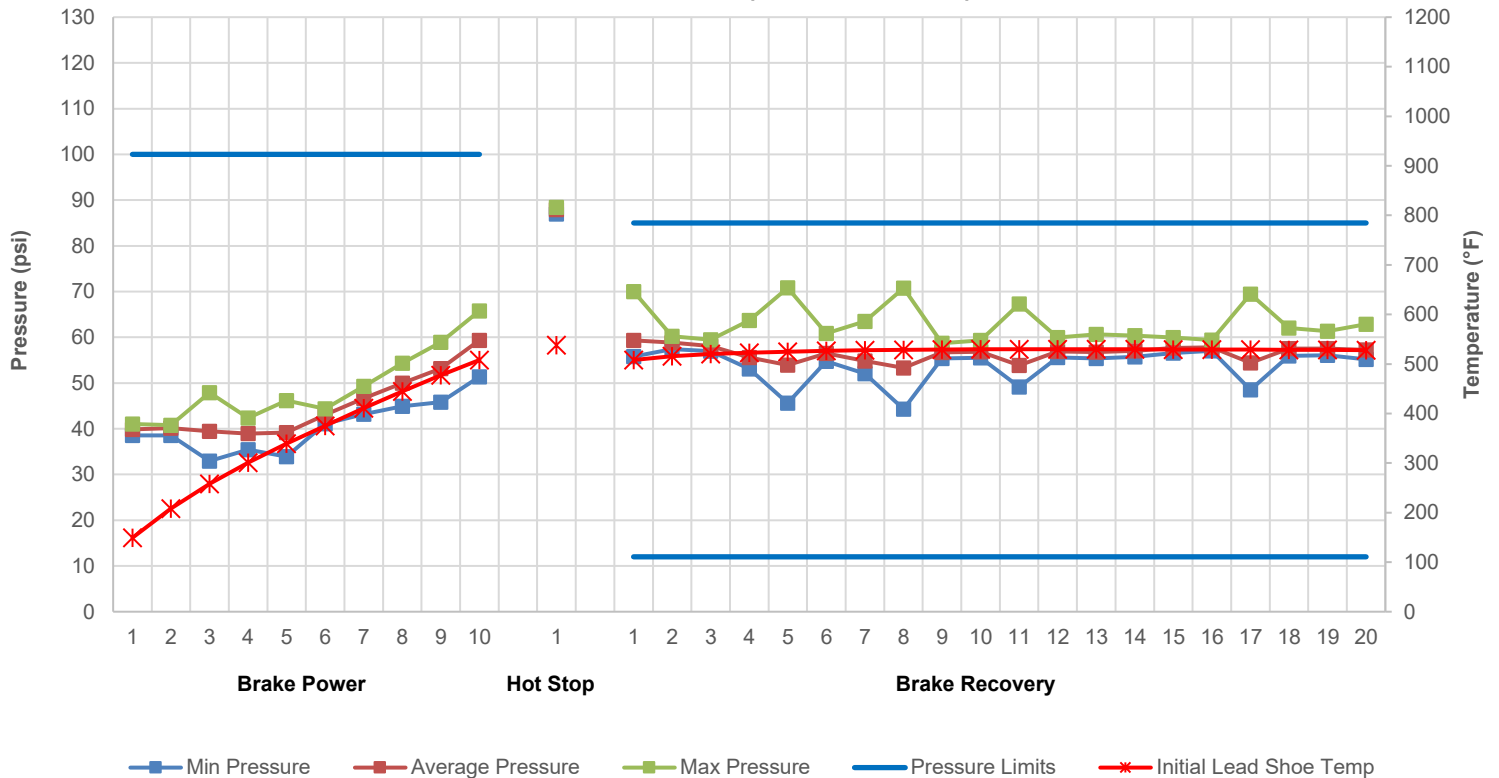
Date: 10/29/2025

Data applicable to the materials tested and parameters agreed to by customer. Valid if signed by the Test Engineer. Uncertainty of measurement details are available upon request.

Brake Retardation



Pressure and Temperature vs Stop



Test Description:

MERITOR DRIVE FMVSS-121

Drum

Primary Lining

Secondary Lining

054.1640

MERITOR MA2301

MERITOR MA2301

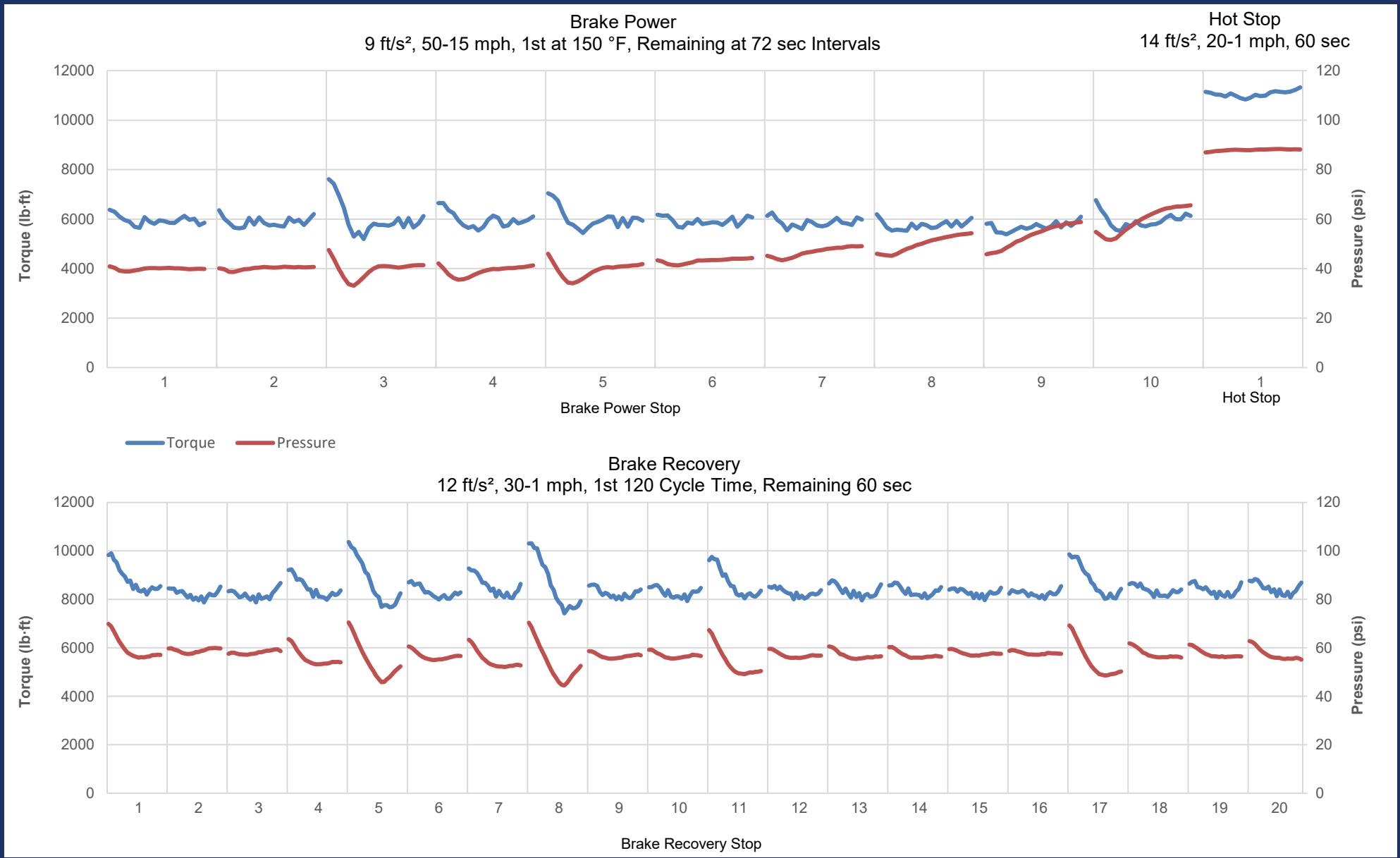
Air Chamber MGM 30/30" LONG STROKE

Slack Adjuster AUTOMATIC / 6.0 inch / HALDEX

Actual Inertia 1076.29 slug·ft²

Actual Wheel Load 11501.27 lb

Rolling Radius 20.80 inch



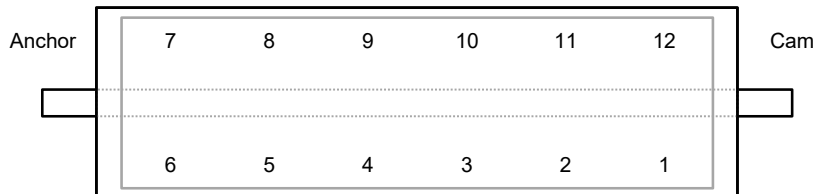
Test Description: MERITOR DRIVE FMVSS-121	Drum Primary Lining Secondary Lining		054.1640 MERITOR MA2301 MERITOR MA2301		Air Chamber Slack Adjuster Actual Inertia Actual Wheel Load Rolling Radius	MGM 30/30" LONG STROKE AUTOMATIC / 6.0 inch / HALDEX 1076.29 slug·ft ² 11501.27 lb 20.80 inch

Shoe Wear Summary

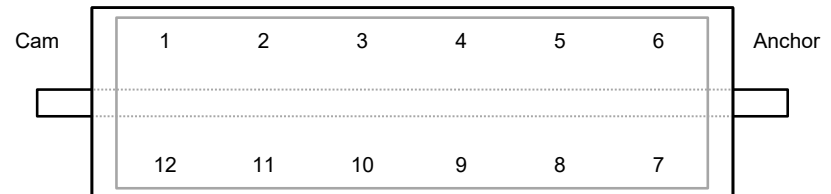
Leading Shoe Thickness (inch)														Mass (gr)
	1	2	3	4	5	6	7	8	9	10	11	12	Avg	
Initial	0.894	0.991	1.007	0.965	0.861	0.688	0.681	0.862	0.965	1.007	0.985	0.893	0.900	7553.0
Final	0.893	0.977	0.973	0.930	0.835	0.679	0.679	0.844	0.940	0.976	0.969	0.883	0.881	7485.0
Loss	0.001	0.014	0.034	0.035	0.026	0.009	0.002	0.018	0.025	0.031	0.016	0.010	0.018	68.0

Trailing Shoe Thickness (inch)														Mass (gr)
	1	2	3	4	5	6	7	8	9	10	11	12	Avg	
Initial	0.899	0.992	1.007	0.970	0.865	0.688	0.680	0.862	0.966	1.004	0.985	0.895	0.901	7554.0
Final	0.878	0.970	0.977	0.951	0.865	0.687	0.681	0.859	0.953	0.982	0.970	0.885	0.888	7495.0
Loss	0.021	0.022	0.030	0.019	-	0.001	-0.001	0.003	0.013	0.022	0.015	0.010	0.013	59.0

Leading Shoe



Trailing Shoe



Images above show the Brake Shoes as viewed from the Friction Material Side.

Note: The images shown are for reference only and are not intended to be representative of the actual parts tested.

Test Description MERITOR DRIVE FMVSS-121	Drum		054.1640	Air Chamber	MGM / 30/30" LONG STROKE
	Primary Lining		MERITOR MA2301	Slack Adjuster	AUTOMATIC / 6.0 inch / HALDEX
	Secondary Lining		MERITOR MA2301	Actual Inertia	1076.29 slug·ft²
				Actual Wheel Load	11501.27 lb
				Rolling Radius	20.80 inch



Drum Wear Summary

Drum Diameter (inch)							Mass (lb)
	1	2	3	4	5	6	
Initial	16.493	16.493	16.492	16.492	16.491	16.490	16.492 104.34
Final	16.493	16.493	16.491	16.491	16.491	16.490	16.491 104.30
Loss	-	-	-0.001	-0.001	-	-	-0.000 0.04

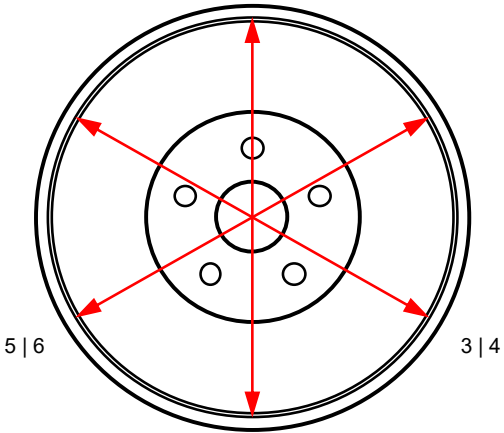
Drum Measurement Points

Inner | Outer

Direction of Rotation



1 | 2



5 | 6

3 | 4

(Inside view of drum shown)

	MicroFinish (μinch)					
	1	2	3	4	5	6
Initial	59	-	55	-	68	-
Final	17	-	16	-	16	-

Brinell Hardness 196

Runout 0.007 inch

Test Description

MERITOR DRIVE FMVSS-121

Drum
Primary Lining
Secondary Lining

054.1640
MERITOR MA2301
MERITOR MA2301

Air Chamber
Slack Adjuster
Actual Inertia
Actual Wheel Load
Rolling Radius

MGM / 30/30" LONG STROKE
AUTOMATIC / 6.0 inch / HALDEX
1076.29 slug-ft²
11501.27 lb
20.80 inch



Wear Comments

Leading Shoe Wear Comments

	Stress Cracks	Structural Cracks	Grooves	Glazing	Pitting	Blisters	Edge Chipping	Lining Separation	Discoloration
Final	5	5	5	4	5	5	5	4	4

Trailing Shoe Wear Comments

	Stress Cracks	Structural Cracks	Grooves	Glazing	Pitting	Blisters	Edge Chipping	Lining Separation	Discoloration
Final	5	5	5	4	5	5	5	4	4

Drum Wear Comments

	Stress Cracks	Structural Cracks	Grooves	Lining Transfer	Hot Spots	Bluing	Discoloration
Final	5	5	5	5	5	5	4

Rating Scale:

1	2	3	4	5
Severe	Heavy	Moderate	Light	Not Observed

Test Description

MERITOR DRIVE FMVSS-121

Drum

Primary Lining

Secondary Lining

054.1640

MERITOR MA2301

MERITOR MA2301

Air Chamber

Slack Adjuster

Actual Inertia

Actual Wheel Load

Rolling Radius

MGM / 30/30" LONG STROKE

AUTOMATIC / 6.0 inch / HALDEX

1076.29 slug-ft²

11501.27 lb

20.80 inch

Test Request #:
112305-2-1



Customer Ref:

Stop #	Brake Speed mph	Release Speed mph	Stop Time sec	Cycle Time sec	Stop Distance feet	Direction	Decel Avg (Time) ft/s²	Decel Avg (Torque) ft/s²	Ret. Ratio unitless	Torque				Pressure			Stroke			Drum Temperature		Lead Shoe Temperature		Ambient Air Temperature	
										Min lb-ft	Average (Thr-Thr) lb-ft	(Dist) lb-ft	Max lb-ft	Min psi	Avg (Time) psi	Max psi	Min inch	Avg (Time) inch	Max inch	Initial °F	Final °F	Initial °F	Final °F	Initial °F	Final °F
Section 1																									
1	0.0	0.0	3.2	34.9	0.0	Forward	0.0	0.2	0.005	106.7	107.9	-254.8	112.5	58.5	60.0	60.3	1.106	1.139	1.142	79	79	79	80	76	76
Section 10 Burnish																									
1	40.1	2.0	8.8	36.3	252.1	Forward	6.3	6.4	0.200	2955.9	3962.6	4344.6	6045.1	79.5	97.5	101.3	2.874	2.926	2.934	581	622	350	424	63	63
10	40.0	2.0	5.7	146.1	177.7	Forward	9.8	10.5	0.328	6088.4	6225.0	6570.7	7457.2	50.8	52.9	58.0	2.279	2.292	2.309	419	501	350	392	62	62
20	40.0	2.0	5.6	148.3	175.7	Forward	9.9	10.6	0.329	6152.6	6257.7	6631.5	7505.1	49.5	51.4	57.9	2.217	2.224	2.238	413	497	350	393	62	62
30	40.1	2.0	5.5	146.7	169.6	Forward	10.2	10.9	0.340	6302.1	6441.1	6952.7	8244.4	45.3	48.4	63.6	2.221	2.240	2.318	414	493	350	390	62	62
40	40.0	2.0	5.6	146.4	174.0	Forward	9.9	10.6	0.331	6176.0	6279.9	6712.1	7610.2	45.3	47.5	58.5	2.197	2.210	2.257	415	492	350	390	61	61
50	40.0	2.0	5.5	151.7	168.6	Forward	10.0	10.9	0.337	5463.5	6399.0	6956.2	9262.9	37.2	47.1	67.2	2.073	2.184	2.367	415	494	350	390	60	60
60	40.0	2.0	5.5	149.9	167.3	Forward	10.1	10.9	0.338	5551.1	6408.4	7005.2	9229.0	37.4	47.9	69.0	2.109	2.218	2.404	415	494	350	390	59	60
70	40.0	2.0	5.6	151.1	172.9	Forward	9.9	10.6	0.329	6039.3	6249.5	6754.1	7946.6	42.4	46.5	61.1	2.185	2.214	2.312	414	493	350	391	59	59
80	40.0	2.0	5.7	149.0	174.6	Forward	9.9	10.6	0.329	6135.1	6246.0	6696.9	7547.2	42.6	45.2	57.5	2.182	2.199	2.259	414	494	350	391	59	59
90	40.0	2.0	5.7	148.8	174.4	Forward	9.9	10.6	0.328	6088.4	6242.5	6702.7	7647.6	42.0	45.1	57.6	2.168	2.187	2.254	415	495	350	392	58	58
100	40.0	2.0	5.6	147.1	170.3	Forward	9.9	10.8	0.335	5374.7	6331.3	6912.9	9052.7	36.2	46.9	67.0	2.083	2.201	2.381	415	497	350	392	58	58
110	40.0	2.0	5.6	148.5	172.2	Forward	9.9	10.7	0.332	6024.1	6300.9	6807.8	8091.4	41.4	46.6	60.8	2.147	2.182	2.281	415	498	350	392	58	58
120	40.0	2.0	5.6	146.9	175.0	Forward	9.9	10.6	0.329	6168.9	6253.0	6679.4	7430.4	43.4	45.8	55.4	2.149	2.160	2.191	414	498	350	393	58	58
130	40.0	2.0	5.6	147.0	170.8	Forward	10.0	10.7	0.333	5794.0	6326.6	6834.7	8313.3	39.0	46.8	62.0	2.101	2.167	2.282	415	499	350	393	58	58
140	40.0	2.0	5.6	146.8	173.6	Forward	9.9	10.6	0.330	6135.1	6264.7	6705.0	7447.9	42.1	45.0	55.1	2.144	2.157	2.192	414	500	350	394	58	58
150	40.0	2.0	5.6	150.7	170.6	Forward	9.9	10.7	0.334	5587.3	6336.0	6863.9	8561.0	36.9	46.5	62.8	2.093	2.184	2.320	413	499	350	394	59	59
160	40.0	2.0	5.6	149.2	173.5	Forward	9.9	10.6	0.329	6101.2	6261.2	6709.7	7599.7	41.6	44.9	55.2	2.147	2.161	2.210	414	499	350	394	60	60
170	40.0	2.0	5.5	149.2	172.6	Forward	10.0	10.8	0.337	6243.7	6355.8	6840.5	7672.1	43.0	45.9	55.8	2.165	2.176	2.213	413	499	350	393	60	60
180	40.0	2.0	5.6	150.4	172.5	Forward	10.0	10.8	0.335	6077.8	6316.1	6834.7	7999.2	41.2	46.0	58.4	2.144	2.172	2.251	414	499	350	394	60	60
190	40.0	2.0	5.7	151.8	175.9	Forward	9.9	10.6	0.331	6171.3	6256.5	6703.9	7458.4	43.4	45.8	53.9	2.158	2.166	2.192	414	499	350	394	59	60
200	40.0	2.0	5.6	148.2	174.9	Forward	9.9	10.7	0.332	6147.9	6277.6	6731.9	7535.5	42.5	45.3	54.3	2.149	2.158	2.189	412	496	350	394	60	60
Section 20 Burnish																									
1	40.0	2.0	6.3	53.8	193.4	Forward	8.8	9.4	0.292	5388.7	5582.6	5985.6	7745.7	59.3	77.3	100.5	2.503	2.648	2.843	654	738	500	556	63	63
10	40.0	2.0	5.5	107.0	172.8	Forward	10.2	11.2	0.347	6510.0	6478.5	6951.5	7676.8	46.1	55.7	67.9	2.277	2.329	2.359	560	687	500	545	63	63
20	40.0	2.0	5.6	105.2	180.7	Forward	9.9	10.7	0.333	6150.3	6271.7	6541.5	7306.6	48.6	56.7	60.1	2.255	2.293	2.311	563	678	500	546	63	63
30	40.0	2.0	5.6	105.3	179.8	Forward	9.9	10.7	0.332	6157.3	6253.0	6540.4	7144.2	49.9	56.4	60.0	2.265	2.296	2.315	563	677	500	547	64	64
40	40.0	2.0	5.7	104.6	180.8	Forward	9.8	10.6	0.330	6142.1	6234.4	6507.7	7159.4	49.6	55.2	57.9	2.247	2.290	2.312	562	678	500	549	66	67
50	40.0	2.0	5.6	103.5	176.2	Forward	9.9	10.7	0.333	6192.3	6289.2	6674.7	7405.8	49.6	53.5	61.5	2.286	2.291	2.306	562	678	500	551	66	67
60	40.0	2.0	5.7	106.1	178.3	Forward	9.9	10.7	0.332	6156.1	6267.1	6594.1	7216.6	49.0	53.3	58.5	2.263	2.276	2.286	562	738	500	551	70	70
70	40.0	2.0	5.7	105.2	176.9	Forward	9.8	10.7	0.333	6161.9	6260.0	6720.2	7617.2	48.8	51.5	60.8	2.277	2.285	2.311	563	676	500	552	69	69
80	40.0	2.0	5.7	105.4	179.4	Forward	9.8	10.6	0.329	6143.3	6219.2	6520.5	6976.0	48.3	52.1	55.2	2.208	2.237	2.256	562	675	500	551	71	71
90	40.0	2.0	5.6	105.2	175.9	Forward	10.0	10.8	0.335	6242.5	6346.5	6644.3	7209.6	49.4	52.5	55.5	2.252	2.287	2.308	562	674	500	550	72	72
100	40.0	2.0	5.6	106.0	178.5	Forward	9.9	10.6	0.330	6136.2	6250.7	6536.9	7057.8	47.5	51.2	53.6	2.212	2.250	2.271	562	674	500	551	73	73
110	40.0	2.0	5.6	104.4	177.5	Forward	9.9	10.6	0.330	6147.9	6267.1	6555.5	7039.1	47.4	50.6	53.6	2.199	2.229	2.248	563	673	500	552	76	76
120	40.0	2.0	5.6	107.7	175.0	Forward	9.9	10.7	0.333	6143.3	6295.1	6735.4	7614.9	46.4	49.2	58.2	2.241	2.252	2.283	563	674	500	552	76	76
130	40.0	2.0	5.6	107.0	174.6	Forward	9.9	10.7	0.332	6158.4	6289.2	6698.0	7502.8	46.3	48.8	56.3	2.214	2.224	2.245	562	674	500	552	78	78
140	40.0	2.0	5.7	107.6	179.3	Forward	9.8	10.6	0.328	6123.4	6218.0	6517.0	6946.8	47.4	49.7	52.0	2.178	2.217	2.237	563	675	500	552	77	77
150	40.0	2.0	5.7	108.0	178.1	Forward	9.9	10.6	0.329	6116.4	6241.4	6559.0	7105.7	46.5	48.7	52.3	2.184	2.208	2.225	562	673	500	552	81	81
160	40.0	2.0	5.6	108.8	173.8	Forward	9.9	10.7	0.334	6130.4	6322.0	6766.9	7769.1	43.7	46.7	57.1	2.199	2.214	2.260	560	670	500	552	80	80
170	40.0	2.0	5.6	109.7	176.6	Forward	9.9	10.6	0.330	6090.7	6267.1	6571.9	7211.9	45.7	47.8	52.1	2.168	2.185	2.200	562	672	500	552	82	82
180	40.1	2.0	5.7	108.4	178.4	Forward	9.9	10.6	0.329	6095.4	6250.7	6549.7	7111.5	45.4	47.6	51.0	2.147	2.174	2.193	563	673	500	553	82	83
190	40.0	2.0	5.7	108.1	177.0	Forward	9.9	10.6	0.329	6102.4	6269.4	6573.1	7196.8	45.2	47.0	51.2	2.148	2.162	2.179	562	673	500	553	83	83
200	40.0	2.0	5.6	108.5	176.9	Forward	9.9	10.6	0.329	6086.0	6263.6	6547.4	7104.5	44.6	46.8	50.2	2.117	2.142	2.160	562	671	500	552	86	86

Test Request #:
112305-2-1



Customer Ref:

Stop #	Brake Speed mph	Release Speed mph	Stop Time sec	Cycle Time sec	Stop Distance feet	Direction unitless	Decel Avg (Time) ft/s²	Decel Avg (Torque) ft/s²	Ret. Ratio unitless	Torque				Pressure			Stroke			Drum Temperature		Lead Shoe Temperature		Ambient Air Temperature	
										Min lb-ft	Average (Thr-Thr) lb-ft	(Dist) lb-ft	Max lb-ft	Min psi	Avg (Time) psi	Max psi	Min inch	Avg (Time) inch	Max inch	Initial °F	Final °F	Initial °F	Final °F	Initial °F	Final °F
Section 30 Brake Retardation																									
1	49.4	0.9	19.4	1807.1	717.4	Forward	3.7	3.7	0.116	2073.4	2286.0	2296.5	2640.0	19.8	19.9	20.7	0.858	0.946	0.986	188	380	169	302	66	67
2	50.0	1.2	11.5	912.0	433.9	Forward	6.2	6.4	0.198	3649.2	3882.9	3957.6	4426.1	29.7	30.0	30.7	1.110	1.217	1.270	184	383	170	298	68	68
3	50.0	1.5	7.9	1055.9	301.6	Forward	9.0	9.4	0.291	5484.4	5639.8	5834.8	6359.3	39.7	40.0	40.6	1.335	1.455	1.517	181	385	170	288	68	68
4	50.0	1.7	6.1	1147.1	231.2	Forward	11.7	12.3	0.384	7285.7	7383.8	7734.3	8304.3	49.6	50.0	50.6	1.522	1.640	1.698	176	379	170	276	68	69
5	50.0	2.0	5.0	805.4	190.5	Forward	14.2	15.2	0.474	8962.0	9012.2	9584.6	10210.7	59.6	60.0	60.6	1.675	1.787	1.844	171	383	170	266	69	69
6	50.0	2.0	4.4	756.7	170.3	Forward	16.0	17.9	0.557	10564.7	10294.8	11264.4	11897.5	69.5	70.0	70.4	1.815	1.926	1.980	167	398	170	262	69	69
7	50.0	2.0	3.9	676.3	153.3	Forward	17.9	20.3	0.630	12020.2	11540.1	12711.7	13263.1	79.6	80.0	80.3	1.943	2.057	2.104	167	435	170	260	70	70
Section 40 Brake Power																									
1	49.5	15.0	5.7	929.4	270.3	Forward	9.0	9.6	0.298	5530.0	5708.7	5947.0	6430.6	38.6	39.8	41.0	1.337	1.426	1.493	142	356	149	246	70	70
2	50.0	15.0	5.7	72.0	275.0	Forward	9.0	9.6	0.297	5517.1	5683.0	5919.0	6361.7	38.6	40.1	40.8	1.470	1.566	1.637	265	459	208	309	72	72
3	50.0	15.0	5.7	72.0	271.2	Forward	9.0	9.7	0.301	5118.8	5735.6	6065.0	7797.3	32.9	39.5	47.9	1.601	1.689	1.752	350	525	258	356	73	73
4	50.0	15.0	5.7	72.0	273.9	Forward	9.0	9.6	0.297	5362.9	5686.5	5964.5	6883.8	35.4	38.9	42.3	1.696	1.743	1.813	422	578	301	394	74	74
5	50.0	15.0	5.7	72.0	270.6	Forward	9.0	9.6	0.300	5288.2	5720.4	6042.8	7417.7	33.9	39.2	46.2	1.767	1.824	1.882	481	621	339	429	75	76
6	50.0	15.0	5.7	72.0	276.6	Forward	8.9	9.5	0.297	5501.9	5656.1	5916.6	6367.5	41.1	43.1	44.4	1.844	1.911	1.974	532	666	375	464	77	77
7	50.0	15.0	5.8	72.0	279.2	Forward	8.9	9.4	0.294	5444.7	5598.9	5852.4	6357.0	43.2	46.7	49.3	1.913	2.009	2.096	577	706	411	500	78	78
8	50.0	15.0	5.9	72.0	283.8	Forward	8.7	9.3	0.290	5409.6	5533.5	5774.1	6265.9	44.9	50.0	54.3	1.963	2.093	2.206	616	737	445	533	78	78
9	50.0	15.0	5.9	72.0	286.8	Forward	8.7	9.2	0.286	5368.8	5472.7	5684.2	6096.5	45.8	53.2	58.9	1.988	2.165	2.296	651	767	478	564	79	80
10	50.0	15.0	5.7	72.0	276.5	Forward	8.9	9.6	0.299	5466.9	5690.0	5947.0	7001.8	51.4	59.4	65.7	2.162	2.287	2.409	680	793	508	591	80	81
Section 50 Hot Stop																									
1	20.0	2.0	1.9	66.5	33.3	Forward	13.6	17.8	0.554	10833.4	9194.4	11027.3	11332.2	86.9	88.0	88.4	2.579	2.603	2.611	714	753	538	555	79	79
Section 60 Brake Recovery																									
1	30.1	2.0	3.3	122.6	78.8	Forward	12.3	14.2	0.441	8187.5	7992.4	9006.4	9952.6	55.8	59.3	70.0	2.228	2.248	2.284	625	706	508	542	80	80
2	30.1	2.0	3.5	60.0	84.4	Forward	11.7	13.2	0.411	7853.4	7574.2	8234.2	8644.2	57.4	58.8	60.3	2.127	2.146	2.166	623	700	515	549	80	80
3	29.9	2.0	3.5	60.0	84.8	Forward	11.7	13.2	0.410	7845.2	7559.0	8166.5	8685.1	57.0	58.1	59.5	2.075	2.113	2.139	619	696	520	553	80	81
4	29.9	2.0	3.4	60.0	80.8	Forward	12.0	13.6	0.424	7942.2	7778.6	8622.1	9395.4	53.1	55.6	63.7	2.128	2.140	2.162	616	695	523	554	80	81
5	29.9	2.0	3.4	60.0	78.1	Forward	12.2	14.0	0.434	7640.8	7889.6	9097.5	10471.2	45.6	53.9	70.8	2.076	2.144	2.246	612	693	525	555	81	81
6	30.1	2.0	3.5	60.0	82.8	Forward	11.9	13.4	0.416	7929.3	7679.4	8398.9	8950.3	54.8	56.5	60.8	2.102	2.108	2.110	610	689	527	556	81	81
7	30.1	2.0	3.4	60.0	81.0	Forward	12.0	13.7	0.427	8005.3	7814.9	8666.4	9388.4	52.1	54.8	63.5	2.102	2.115	2.138	606	686	528	557	81	81
8	29.9	2.0	3.4	60.0	77.5	Forward	12.1	13.9	0.433	7420.0	7880.3	9140.7	10536.6	44.3	53.3	70.8	2.038	2.119	2.235	605	687	528	557	81	81
9	30.1	2.0	3.5	60.0	83.6	Forward	11.8	13.3	0.413	7884.9	7639.6	8282.1	8674.6	55.4	56.7	58.7	2.053	2.071	2.079	603	682	529	557	81	81
10	30.1	2.0	3.5	60.0	83.8	Forward	11.8	13.3	0.415	7927.0	7637.3	8313.7	8703.8	55.5	56.8	59.3	2.060	2.079	2.084	599	679	530	558	81	81
11	30.1	2.0	3.4	60.0	79.2	Forward	12.2	14.0	0.435	8001.8	7915.3	8953.8	9900.0	49.1	53.9	67.3	2.085	2.119	2.177	597	680	530	558	81	81
12	30.1	2.0	3.5	60.0	83.5	Forward	11.8	13.4	0.415	7935.2	7643.1	8340.5	8751.7	55.6	56.9	60.0	2.064	2.078	2.080	596	676	530	558	82	82
13	29.9	2.0	3.5	60.0	82.7	Forward	11.9	13.4	0.417	7956.2	7705.1	8387.3	8832.3	55.4	56.8	60.7	2.076	2.089	2.090	593	675	530	558	82	82
14	30.1	2.0	3.5	60.0	83.0	Forward	11.9	13.4	0.417	7983.1	7688.7	8377.9	8772.7	55.7	57.0	60.4	2.071	2.088	2.089	592	673	529	558	81	82
15	29.9	2.0	3.5	60.0	83.6	Forward	11.8	13.3	0.415	7959.7	7639.6	8304.3	8643.1	56.6	57.7	60.0	2.061	2.078	2.087	591	672	529	558	82	82
16	30.1	2.0	3.5	60.0	84.4	Forward	11.8	13.3	0.414	7962.0	7602.3	8255.3	8556.6	57.0	57.8	59.4	2.052	2.075	2.088	589	671	529	558	82	82
17	29.9	2.0	3.4	60.0	78.5	Forward	12.2	14.1	0.439	8005.3	7955.0	9062.4	10013.3	48.5	54.4	69.5	2.087	2.135	2.209	588	673	529	557	82	82
18	30.1	2.0	3.5	60.0	82.9	Forward	11.9	13.5	0.420	8025.1	7707.4	8441.0	8860.4	55.9	57.5	62.0	2.104	2.112	2.113	589	671	528	556	82	82
19	29.9	2.0	3.4	60.0	82.7	Forward	11.9	13.5	0.419	8043.8	7719.1	8400.1	8770.4	56.0	57.5	61.4	2.098	2.113	2.114	587	669	528	557	81	81
20	30.1	2.0	3.4	60.0	82.2	Forward	12.0	13.6	0.423	8070.7	7761.1	8499.4	8943.3	55.2	57.3	62.9	2.113	2.126	2.127	588	669	528	557	81	81

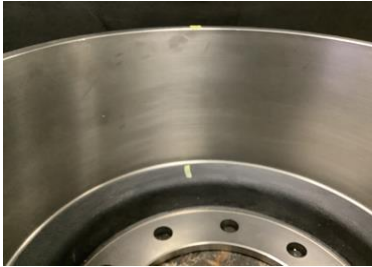
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112305-2-1



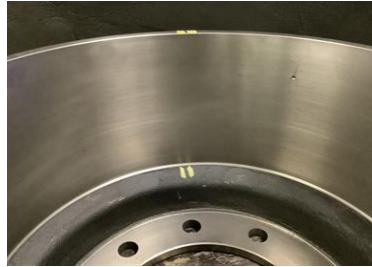
Customer Ref:

Initial Drum

View #1



View #2



View #3



Test Number

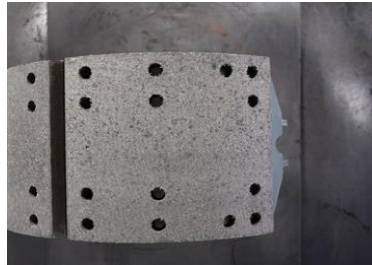


Leading Shoe

Full



Cam



Anchor



Test Number



Trailing Shoe

Full



Cam



Anchor



Test Number



Test Description

MERITOR DRIVE FMVSS-121

Drum

Primary Lining
Secondary Lining

054.1640
MERITOR MA2301
MERITOR MA2301

Air Chamber
Slack Adjuster
Actual Inertia
Actual Wheel Load
Rolling Radius

MGM / 30/30" LONG STROKE
AUTOMATIC / 6.0 inch / HALDEX
1076.29 slug·ft²
11501.27 lb
20.80 inch

Test Request #:
112305-2-1



Customer Ref:

Final Drum

View #1



View #2



View #3



Test Number



Leading Shoe

Full



Cam



Anchor



Test Number



Trailing Shoe

Full



Cam



Anchor



Test Number



Test Description	Drum	054.1640	Air Chamber	MGM / 30/30" LONG STROKE
MERITOR DRIVE FMVSS-121	Primary Lining	MERITOR MA2301	Slack Adjuster	AUTOMATIC / 6.0 inch / HALDEX
	Secondary Lining	MERITOR MA2301	Actual Inertia	1076.29 slug-ft²
			Actual Wheel Load	11501.27 lb
			Rolling Radius	20.80 inch