

ODOT PROFILOGRAPH MACHINE CERTIFICATION

Date: October 22, 2019

Company or Residency: Haskell Lemon

Operator Name: Jacob Roush

Operator Email: jroush@haskelllemon.com
(For future notifications)

Supervisor Name: Jay Lemon

Supervisor Email: jlemon@haskelllemon.com
(For future notifications)

Machine Manufacturer and Type SSI CS9100

Machine Serial Number 0009-6142

RESULT

(39.45, 39.51, 39.15)

(67.11, 66.66, 68.31)

Trace No. 1 (East Bound) 39.53

Trace No. 2 (West Bound) 67.36

Signature Jacob Roush

Machine Ordinal

Data File: EB1 2023.rsd

Stations: Run 1 - 0+00.0 to 5+28.0
 Start GPS: N:4009575.26506103 E:244579.084935418 Z:15S
 End GPS: N:4009570.05651439 E:244739.539122234 Z:15S

Run Speed (Avg, Max, Min):
 Run 1 - 19.8, 22.6, 13.1 mph

Total Distance: 5+28.0

Date [Paved/Corrected]:
 Run 1 - 7/5/2023 11:57:17 AM

Date Tested:
 Run 1 - 7/6/2023 11:57:17 AM

File Modifications:
 Run 1 - Run Out Changed to 2+93.2 ft

Project Parameters
 Project Number: Tulsa Race Way Certification
 State: Oklahoma
 Contractor: HLG
 Traffic Direction: EB
 Highway: Front Entry
 Number of Lanes: 1
 Operator: Jacob Roush
 Driver: JR

Calibration Settings
 Distance: 160504 encoder counts in 250.0 ft
 Track 1:
 Height Sensor Type: RoLine 1145, Gocator 2342/1150/1350
 Height Sensor Level Reading: 4.72 in.
 Accelerometer Constant: 8644.1205
 Track 2:
 Height Sensor Type: RoLine 1145, Gocator 2342/1150/1350
 Height Sensor Level Reading: 4.39 in.
 Accelerometer Constant: 8719.5385

Filter Settings
 Filter Type: Moving Average
 Filter Width: 2.200 ft
 Filter Gain: 1.00

Scallop Parameters
 Minimum Height: 0.035 in (Inclusive)
 Minimum Length: 2.000 ft
 Resolution: 0.010 in
 Blanking Band: 0.000 in

Localized Roughness Settings
 Simulated Profilograph Data Used for Defects Analysis
 Excluding Defects Less than: 2.0 ft
 Bump Height: 0.60 in
 Bump Width: 25.00 ft

Summary - Run 1										
Track 1					Track 2					Average
Segment	Station (ft)	Defects	Rough (in)	PRI (in/mi)	Segment	Station (ft)	Defects	Rough (in)	PRI (in/mi)	PRI (in/mi)
<u>1</u>	0+00.0	0	4.20	42.01	<u>1</u>	0+00.0	0	3.70	37.01	39.51
	5+28.0					5+28.0				
	0+00.0	0	4.20	42.01		0+00.0	0	3.70	37.01	39.51
	5+28.0					5+28.0				

No defects found for Run 1

No ruts found for Run 1

No user events found for Run 1

Certified by: _____

Title: _____

Organization: _____

Data File: EB2 2023.rsd

Stations: Run 1 - 0+00.0 to 5+28.2
 Start GPS: N:4009577.87428541 E:244582.347889352 Z:15S
 End GPS: N:4009568.38120552 E:244743.608384784 Z:15S

Run Speed (Avg, Max, Min):
 Run 1 - 24.6, 25.5, 22.3 mph

Total Distance: 5+28.2

Date [Paved/Corrected]:
 Run 1 - 7/5/2023 12:08:29 PM

Date Tested:
 Run 1 - 7/6/2023 12:08:29 PM

File Modifications:
 Run 1 - No Modifications Found

Project Parameters
 Project Number: Tulsa Race Way Certification
 State: Oklahoma
 Contractor: HLG
 Traffic Direction: EB
 Highway: Front Entry
 Number of Lanes: 1
 Operator: Jacob Roush
 Driver: JR

Calibration Settings
 Distance: 160504 encoder counts in 250.0 ft
 Track 1:
 Height Sensor Type: RoLine 1145, Gocator 2342/1150/1350
 Height Sensor Level Reading: 4.72 in.
 Accelerometer Constant: 8644.1205
 Track 2:
 Height Sensor Type: RoLine 1145, Gocator 2342/1150/1350
 Height Sensor Level Reading: 4.39 in.
 Accelerometer Constant: 8719.5385

Filter Settings
 Filter Type: Moving Average
 Filter Width: 2.200 ft
 Filter Gain: 1.00

Scallop Parameters
 Minimum Height: 0.035 in (Inclusive)
 Minimum Length: 2.000 ft
 Resolution: 0.010 in
 Blanking Band: 0.000 in

Localized Roughness Settings
 Simulated Profilograph Data Used for Defects Analysis
 Excluding Defects Less than: 2.0 ft
 Bump Height: 0.60 in
 Bump Width: 25.00 ft

Summary - Run 1										
Track 1					Track 2					Average
Segment	Station (ft)	Defects	Rough (in)	PRI (in/mi)	Segment	Station (ft)	Defects	Rough (in)	PRI (in/mi)	PRI (in/mi)
<u>1</u>	0+00.0	0	4.11	41.10	<u>1</u>	0+00.0	0	3.72	37.20	39.15
	5+28.0					5+28.0				
	0+00.0	0	4.11	41.10		0+00.0	0	3.72	37.20	39.15
	5+28.0					5+28.0				

No defects found for Run 1

No ruts found for Run 1

No user events found for Run 1

Certified by: _____

Title: _____

Organization: _____

Data File: EB 3 2023.rsd

Stations: Run 1 - 0+00.0 to 5+28.4
 Start GPS: N:4009576.15022769 E:244580.687986237 Z:15S
 End GPS: N:4009570.87400925 E:244741.750928366 Z:15S

Run Speed (Avg, Max, Min):
 Run 1 - 23, 25.1, 19.3 mph

Total Distance: 5+28.4

Date [Paved/Corrected]:
 Run 1 - 7/5/2023 12:19:46 PM

Date Tested:
 Run 1 - 7/6/2023 12:19:46 PM

File Modifications:
 Run 1 - No Modifications Found

Project Parameters
 Project Number: Tulsa Race Way Certification
 State: Oklahoma
 Contractor: HLG
 Traffic Direction: EB
 Highway: Front Entry
 Number of Lanes: 1
 Operator: Jacob Roush
 Driver: JR

Calibration Settings
 Distance: 160504 encoder counts in 250.0 ft
 Track 1:
 Height Sensor Type: RoLine 1145, Gocator 2342/1150/1350
 Height Sensor Level Reading: 4.72 in.
 Accelerometer Constant: 8644.1205
 Track 2:
 Height Sensor Type: RoLine 1145, Gocator 2342/1150/1350
 Height Sensor Level Reading: 4.39 in.
 Accelerometer Constant: 8719.5385

Filter Settings
 Filter Type: Moving Average
 Filter Width: 2.200 ft
 Filter Gain: 1.00

Scallop Parameters
 Minimum Height: 0.035 in (Inclusive)
 Minimum Length: 2.000 ft
 Resolution: 0.010 in
 Blanking Band: 0.000 in

Localized Roughness Settings
 Simulated Profilograph Data Used for Defects Analysis
 Excluding Defects Less than: 2.0 ft
 Bump Height: 0.60 in
 Bump Width: 25.00 ft

Summary - Run 1										
Track 1					Track 2					Average
Segment	Station (ft)	Defects	Rough (in)	PRI (in/mi)	Segment	Station (ft)	Defects	Rough (in)	PRI (in/mi)	PRI (in/mi)
<u>1</u>	0+00.0	0	4.05	40.50	<u>1</u>	0+00.0	0	3.94	39.40	39.95
	5+28.0					5+28.0				
	0+00.0	0	4.05	40.50		0+00.0	0	3.94	39.40	39.95
	5+28.0					5+28.0				

No defects found for Run 1

No ruts found for Run 1

No user events found for Run 1

Certified by: _____

Title: _____

Organization: _____

Data File: WB 1 2023.rsd

Stations: Run 1 - 5+28.0 to 0+00.0
 Start GPS: N:4009578.172297 E:244907.04182715 Z:15S
 End GPS: N:4009583.38070178 E:244746.346006584 Z:15S

Run Speed (Avg, Max, Min):
 Run 1 - 29.8, 30.3, 28.3 mph

Total Distance: 5+28.0

Date [Paved/Corrected]:
 Run 1 - 7/5/2023 12:27:31 PM

Date Tested:
 Run 1 - 7/6/2023 12:27:31 PM

File Modifications:
 Run 1 - Run Out Changed to 3+34.3 ft

Project Parameters
 Project Number: Tulsa Race Way Certification
 State: Oklahoma
 Contractor: HLG
 Traffic Direction: WB
 Highway: Front Entry
 Number of Lanes: 1
 Operator: Jacob Roush
 Driver: JR

Calibration Settings
 Distance: 160504 encoder counts in 250.0 ft
 Track 1:
 Height Sensor Type: RoLine 1145, Gocator 2342/1150/1350
 Height Sensor Level Reading: 4.72 in.
 Accelerometer Constant: 8644.1205
 Track 2:
 Height Sensor Type: RoLine 1145, Gocator 2342/1150/1350
 Height Sensor Level Reading: 4.39 in.
 Accelerometer Constant: 8719.5385

Filter Settings
 Filter Type: Moving Average
 Filter Width: 2.200 ft
 Filter Gain: 1.00

Scallop Parameters
 Minimum Height: 0.035 in (Inclusive)
 Minimum Length: 2.000 ft
 Resolution: 0.010 in
 Blanking Band: 0.000 in

Localized Roughness Settings
 Simulated Profilograph Data Used for Defects Analysis
 Excluding Defects Less than: 2.0 ft
 Bump Height: 0.60 in
 Bump Width: 25.00 ft

Summary - Run 1											
Track 1					Track 2					Average	
Segment	Station (ft)	Defects	Rough (in)	PRI (in/mi)	Segment	Station (ft)	Defects	Rough (in)	PRI (in/mi)	PRI (in/mi)	PRI (in/mi)
<u>1</u>	5+28.0 0+00.0	3	7.50	75.01	<u>1</u>	5+28.0 0+00.0	2	6.16	61.61		68.31
	5+28.0 0+00.0	3	7.50	75.01		5+28.0 0+00.0	2	6.16	61.61		68.31

Defect Locations - Run 1 - By Station						
Defect	Type	Track	Segment	Start (ft)	End (ft)	Length (ft)
1	Bump	2	1	1+64.1	1+54.0	10.1
2	Bump	1	1	3+48.6	3+43.9	4.7
3	Bump	1	1	3+82.0	3+75.8	6.2
4	Bump	2	1	3+82.5	3+76.5	6.0
5	Bump	1	1	4+60.7	4+54.0	6.7

Track 1 defects: 3
 Track 2 defects: 2
 Total defects: 5

No ruts found for Run 1

No user events found for Run 1

Certified by: _____

Title: _____

Organization: _____

Data File: WB 2 2023.rsd

Stations: Run 1 - 5+28.0 to -0+00.0
 Start GPS: N:4009577.14653653 E:244906.29045118 Z:15S
 End GPS: N:4009583.26973968 E:244745.727666646 Z:15S

Run Speed (Avg, Max, Min):
 Run 1 - 27.9, 29.8, 22.6 mph

Total Distance: 5+28.0

Date [Paved/Corrected]:
 Run 1 - 7/5/2023 12:32:43 PM

Date Tested:
 Run 1 - 7/6/2023 12:32:43 PM

File Modifications:
 Run 1 - Run Out Changed to 3+43.0 ft

Project Parameters
 Project Number: Tulsa Race Way Certification
 State: Oklahoma
 Contractor: HLG
 Traffic Direction: WB
 Highway: Front Entry
 Number of Lanes: 1
 Operator: Jacob Roush
 Driver: JR

Calibration Settings
 Distance: 160504 encoder counts in 250.0 ft
 Track 1:
 Height Sensor Type: RoLine 1145, Gocator 2342/1150/1350
 Height Sensor Level Reading: 4.72 in.
 Accelerometer Constant: 8644.1205
 Track 2:
 Height Sensor Type: RoLine 1145, Gocator 2342/1150/1350
 Height Sensor Level Reading: 4.39 in.
 Accelerometer Constant: 8719.5385

Filter Settings
 Filter Type: Moving Average
 Filter Width: 2.200 ft
 Filter Gain: 1.00

Scallop Parameters
 Minimum Height: 0.035 in (Inclusive)
 Minimum Length: 2.000 ft
 Resolution: 0.010 in
 Blanking Band: 0.000 in

Localized Roughness Settings
 Simulated Profilograph Data Used for Defects Analysis
 Excluding Defects Less than: 2.0 ft
 Bump Height: 0.60 in
 Bump Width: 25.00 ft

Summary - Run 1										
Track 1					Track 2					Average
Segment	Station (ft)	Defects	Rough (in)	PRI (in/mi)	Segment	Station (ft)	Defects	Rough (in)	PRI (in/mi)	PRI (in/mi)
<u>1</u>	5+28.0 0+00.0	3	7.10	71.01	<u>1</u>	5+28.0 0+00.0	2	6.23	62.31	66.66
	5+28.0 0+00.0	3	7.10	71.01		5+28.0 0+00.0	2	6.23	62.31	66.66

Defect Locations - Run 1 - By Station						
Defect	Type	Track	Segment	Start (ft)	End (ft)	Length (ft)
1	Bump	2	1	1+61.5	1+55.6	5.9
2	Bump	1	1	3+47.7	3+43.8	3.8
3	Bump	1	1	3+81.3	3+76.9	4.4
4	Bump	2	1	3+84.6	3+76.1	8.5
5	Bump	1	1	4+63.5	4+54.2	9.3

Track 1 defects: 3
 Track 2 defects: 2
 Total defects: 5

No ruts found for Run 1

No user events found for Run 1

Certified by: _____

Title: _____

Organization: _____

Data File: WB 3 2023.rsd

Stations: Run 1 - 5+28.0 to 0+00.0
 Start GPS: N:4009578.00288385 E:244906.873095099 Z:15S
 End GPS: N:4009583.29390054 E:244745.850692173 Z:15S

Run Speed (Avg, Max, Min):
 Run 1 - 28.7, 29.8, 25.7 mph

Total Distance: 5+28.0

Date [Paved/Corrected]:
 Run 1 - 7/5/2023 12:35:02 PM

Date Tested:
 Run 1 - 7/6/2023 12:35:02 PM

File Modifications:
 Run 1 - Run Out Changed to 3+36.9 ft

Project Parameters
 Project Number: Tulsa Race Way Certification
 State: Oklahoma
 Contractor: HLG
 Traffic Direction: WB
 Highway: Front Entry
 Number of Lanes: 1
 Operator: Jacob Roush
 Driver: JR

Calibration Settings
 Distance: 160504 encoder counts in 250.0 ft
 Track 1:
 Height Sensor Type: RoLine 1145, Gocator 2342/1150/1350
 Height Sensor Level Reading: 4.72 in.
 Accelerometer Constant: 8644.1205
 Track 2:
 Height Sensor Type: RoLine 1145, Gocator 2342/1150/1350
 Height Sensor Level Reading: 4.39 in.
 Accelerometer Constant: 8719.5385

Filter Settings
 Filter Type: Moving Average
 Filter Width: 2.200 ft
 Filter Gain: 1.00

Scallop Parameters
 Minimum Height: 0.035 in (Inclusive)
 Minimum Length: 2.000 ft
 Resolution: 0.010 in
 Blanking Band: 0.000 in

Localized Roughness Settings
 Simulated Profilograph Data Used for Defects Analysis
 Excluding Defects Less than: 2.0 ft
 Bump Height: 0.60 in
 Bump Width: 25.00 ft

Summary - Run 1										
Track 1					Track 2					Average
Segment	Station (ft)	Defects	Rough (in)	PRI (in/mi)	Segment	Station (ft)	Defects	Rough (in)	PRI (in/mi)	PRI (in/mi)
<u>1</u>	5+28.0 0+00.0	3	7.27	72.71	<u>1</u>	5+28.0 0+00.0	2	6.15	61.51	67.11
	5+28.0 0+00.0	3	7.27	72.71		5+28.0 0+00.0	2	6.15	61.51	67.11

Defect Locations - Run 1 - By Station						
Defect	Type	Track	Segment	Start (ft)	End (ft)	Length (ft)
1	Bump	2	1	1+60.0	1+55.6	4.4
2	Bump	1	1	3+47.5	3+43.8	3.8
3	Bump	1	1	3+81.8	3+76.2	5.7
4	Bump	2	1	3+83.8	3+76.2	7.7
5	Bump	1	1	4+63.4	4+53.8	9.6

Track 1 defects: 3
 Track 2 defects: 2
 Total defects: 5

No ruts found for Run 1

No user events found for Run 1

Certified by: _____

Title: _____

Organization: _____