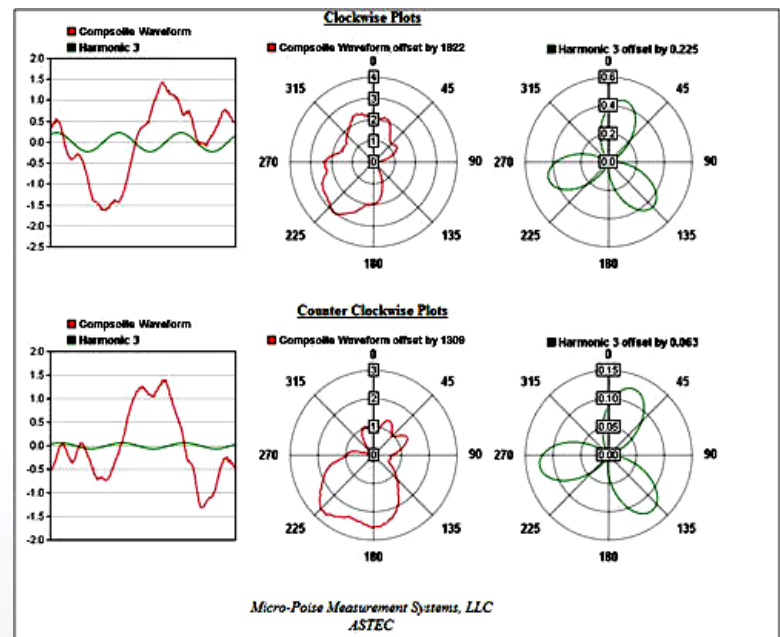


DATA & WAVEFORM VISUALIZATION FOR ASTEC® PLUS

The ASTEC® PLUS data and waveform visualization product provides the tire manufacturer with key information for decision making on the operations floor.

It automatically generates reports for the operator, quality personnel, and management. The toolset does this by using input filters to select relevant statistical data to generate reports. This product augments the ASTEC PLUS's ability to communicate with high level data collection and analysis systems.

- **Waveforms are stored** at the machine for one hundred of the most recent tires tested.
- **Measurement data**, grading charts, parts statistics and operations reports are easily configured and displayed at the machine.
- **Special testing reports** such as in (M x N) tests are automated and available for display.



Waveform Charts for Visualization on the ASTEC® PLUS System

Key Features and Benefits:

- Allows operator, quality personnel, and production personnel to **see product trends** at the machine. This makes for better decision making.
- **Easy to use.** Provides timely testing information.
- **Visual Summary** of recent machine data history. This makes it convenient and available to all production personnel.
- This is a **web-based** product. It is easy to use and comprehend.

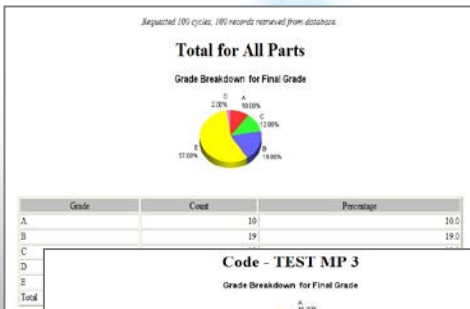
Micro-Poise Measurement Systems, LLC

For more than 90 years, Micro-Poise has been supplying innovative solutions that put us on the leading edge of final finish tire testing technology. Contact us today to see why **The World is Turning to Micro-Poise** for all of their final finish tire testing needs.

DATA & WAVEFORM VISUALIZATION FOR ASTEC® PLUS

Key Functions

- Information is displayed along with basic statistics for **measurement data** using mean, standard deviation, min, and max.
- Special M x N testing data is updated every 15 seconds to get **immediate results** and displayed on screen during the testing. The product can be used with any tire size being measured.
- The product data **uses filters** such as date, time, run period, number of cycles, number of days, tire type and barcode to select relevant data.
- First (1st) through tenth (10th) **harmonics can be selected** and overlaid atop the original composite waveform using both rectangular and polar coordinates.
- Rectangular and polar **plots are generated** to visually show the original composite waveform along with the individual harmonic waveforms.



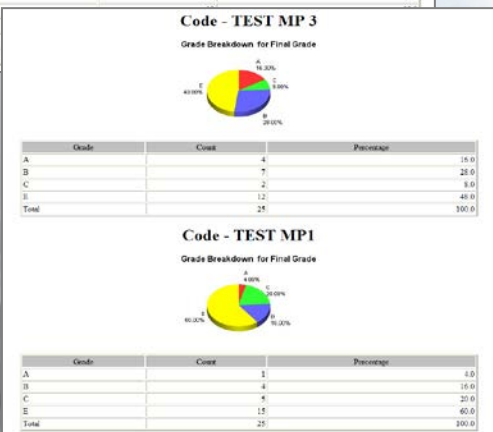
Grading Chart

Last cycles
 Last days
 Tire Type
 Barcode
 From

Part History

Last cycles
 Last days
 Tire Type
 Barcode
 From

Machine Parameters: Load, Inflation, Plysteer, Concivity, Rim Width, Bead Diameter, RFV, RFV CW, RFV CCW, LFV, LFV CW, LFV CCW, RRO, RRO CW, RRO CCW, Center RRO, Lower RRO, Upper RRO



Download Production Data

Last cycles
 Last days
 Tire Type
 Barcode
 From 02 Feb 2011 13:46:10 to now

No data available for selected option

Download Waveform Data

Last cycles
 Tire Type
 Barcode

No data available for selected option

Micro-Poise Measurement Systems, LLC
ASTEC

Code TEST MP 3

Parameters	Min	Max	Mean	Std Dev
Load	90.64	90.90	90.76	0.13
Inflation	29.98	30.02	30.00	0.02
Plysteer	1.16	1.29	1.21	0.07
Concivity	0.46	0.67	0.57	0.11
Rim Width	152.40	152.40	152.40	0.00
Bead Diameter	431.80	431.80	431.80	0.00
RFV	16.31	17.11	16.65	0.41
RFV CW	16.31	17.11	16.58	0.46
RFV CCW	16.24	16.80	16.52	0.28
H1 RFV	13.51	14.25	13.82	0.39
H1 RFV CW	13.51	14.25	13.82	0.39
H1 RFV CCW	13.18	13.76	13.44	0.29
H2 RFV	1.94	2.29	2.09	0.18
H2 RFV CW	1.94	2.07	1.99	0.08
H2 RFV CCW	1.93	2.29	2.08	0.19
HN RFV	2.36	2.44	2.41	0.04
HN RFV CW	2.29	2.44	2.38	0.08
HN RFV CCW	2.28	2.36	2.32	0.04
LFV	1.98	2.13	2.05	0.07
LFV CW	1.98	2.13	2.05	0.07
LFV CCW	1.75	2.02	1.91	0.14
H1 LFV	1.10	1.14	1.12	0.02
H1 LFV CW	1.10	1.14	1.12	0.02
H1 LFV CCW	0.82	0.88	0.85	0.03
Upper RRO	0	0	0	0
Center RRO	0	0	0	0
Lower RRO	0	0	0	0
H1 Upper RRO	0	0	0	0
H1 Center RRO	0	0	0	0

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