

Terminal Blended
Ground Tire Rubber
(GTR)
NCAUPG

by

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Objective

- To keep used car and truck tires out of landfills.
- To reduce the disposal cost of used tires
- To recycle these used tires in a environmentally friendly manner
- To provide a engineered high quality product that will extend the useful life of our road ways.

Enhanced Physical Properties

- Increased Rut Resistance
- Reduced Reflective Cracking
- Reduced Thermal Cracking
- MDOT 13A Regular mix using PG64-22 has a Marshall Stability of 2400 and Flow of 12
- MDOT 13A mix using GTRPG76-22 has a Marshall Stability 3600 and Flow of 16

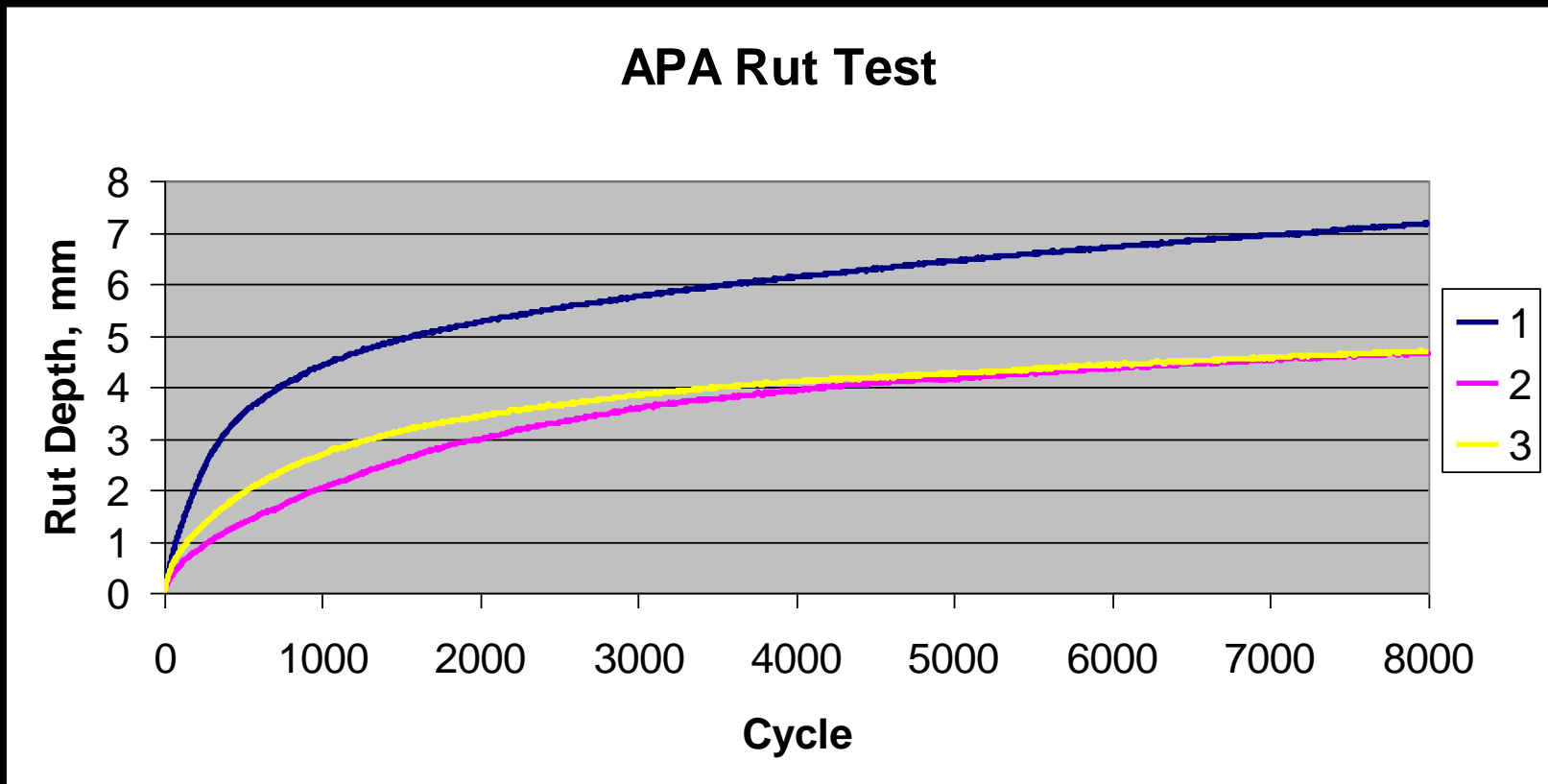
APA Rut Test Results

All three mixes are the same mix design; the only difference is the liquid in each.

Mix # 1 has PG64-22 with a rut depth of 7.1715 mm.

Mix # 2 has SBSPG76-22 ILDOT Spec. or PG76-22P MDOT Spec. with a rut depth of 4.6645 mm.

Mix # 3 has GTRPG76-22 with a rut depth of 4.6915 mm.



MORTON 2007



2/18/2009

7,000 TRUCK LOADS IN FIRST 30 DAYS



2/18/2009

Sheridan Road Saginaw, MI 081005 Project



2/18/2009

Sheridan Road Saginaw, MI 081005



2/18/2009

The 2,000 miles to Phoenix, AZ



Lucas County – Toledo, OH

4.75 mm mix



Easy Hand Work



Bell Road Saginaw CRC 6/15/06



2/18/2009

St. Louis, MO Rt. 340 OGFC 9/27/06



I-294 GTR- SMA 10/9/06



2/18/2009

City of Chicago DOT Green Alley 10/19/06



2/18/2009

15



E. Broadway, Base course GTR Toledo, OH 11/1/06



US 6 GTR Surface Course 11/6/06



2/18/2009

Bosch Track 6/6/07 IN



CITY OF CHICAGO DEPT. OF TRANSPORTATION PAVING CREWS



HUMMER TEST TRACK SOUTH BEND, IN



2/18/2009

21

I-90 ISTHA ROCKFORD, IL



2/18/2009

22

APPLETON, WI – CRC PAVING CREWS



2/18/2009

23

CDOT, NORTH AVE. BRIDGE 12/13/07



2/18/2009

24

2005 GTR PROJECTS

<u>Year</u>	<u>Contractor</u>	<u>Location</u>	<u>Liquid Tons</u>
• 2005	MAS	Arizona	50
• 2005	Saginaw Asphalt	Sheridan Rd	300
• 2005	Gerken Materials	King Rd	50

2006 GTR PROJECTS

<u>Year</u>	<u>Contractor</u>	<u>Location</u>	<u>Liquid Tons</u>
• 2006	Saginaw County	seal coat	90
• 2006	Gerken Materials	Wood County Landfill	130
• 2006	Bowers Asphalt	City of Northwood	325
• 2006	Shelly Co	Lucas County	25
• 2006	Gorman Brothers	New York	25
• 2006	Pace Construction	Missouri	335
• 2006	Saginaw Asphalt	Bell Rd	195
• 2006	Gallagher Asphalt	I-294	405
• 2006	Rieth-Riley, SB	Bosch Test	25
• 2006	Ogden Materials	Green Alley	<u>25</u>
•	Total Liquid Tons	1,580	
•	Which equals 21,725 used car tires used.		

2007 GTR PROJECTS

<u>Year</u>	<u>Contractor</u>	<u>Location</u>	<u>Liquid Tons</u>
• 2007	Saginaw Asphalt	Curtis Rd	300
• 2007	Saginaw Asphalt	various roads	240
• 2007	Shelly Company	Franklin Co.	175
• 2007	Erie Materials	Ottawa Co.	75
• 2007	S & S	Columbus	25
• 2007	Rieth-Riley, SB	Bosch Automotive Track	315
• 2007	Curran Construction	Bateman Rd	160
• 2007	Gallagher Asphalt	Cook County	365
• 2007	Ogden Materials	111th & 103rd	180
• 2007	Payne & Dolan	Outagamie	200
• 2007	River City Supply	Morton Maintenance	50
• 2007	Rock Road	I-90	100
• 2007	Rieth-Riley, SB	La Ville Library	10
• 2007	J H Rudolph	Tell City	65
• 2007	Rieth-Riley, SB	Hummer Test Track	45
• 2007	Rockford Blacktop	I-90	50
• 2007	Ogden Materials	City of Chicago alley	40
• 2007	Gallagher Asphalt	Cook County	25
• 2007	Ogden Materials	Bridge CDOT	45
•	TOTAL LIQUID TONS 4,445		
•	Which equals 61,119 used car tires used.		

2008 GTR PROJECTS UNDER CONTRACT

<u>Year</u>	<u>Contractor</u>	<u>Location</u>	<u>Liquid tons</u>
• 2008	J H Rudolph	Tell City, IN	129
• 2008	Rock Road	ISTHA #1-05-547 I-90	1,814
• 2008	Fiala	ISTHA # 1-07-5476 I-355	2,325
• 2008	Rockford Blacktop	ISTHA # 1-06-5540 I-90	2,290
• 2008	Quarry Materials	Forrest Preserve	40
• 2008	Ogden Materials	CDOT Paving	300
• 2008	Gerken Materials	City of Sylvania	85
• 2008	Shelly Co.	Logan County Paving	693
• 2008	Plote Construction	Du Page County	150
• 2008	Plote Construction	Cook County	198
• 2008	Rock Road	ISTHA # 5542 I-90	1,850
• 2008	Gallagher	Cook County	200
• 2008	Rock Road	ISTHA # 5540 I-90	475
• 2008	Markham Materials	Cook County 119 th St.	210
• 2008	Rockford Blacktop	ISTHA I-90/Riverside	130
• 2008	Curran	OGDC Parking Lot	125
• 2008	Gerken Materials	Various Lucas Co. Roads	235
• 2008	Shelly Co.	OSU Extension	<u>43</u>

» **Total Liquid Tons 11,292**

» **Which equals 155,265 used car tires used**

QUESTIONS ????

Thank You