

Date: February 1, 2011

Simon Wang
American Kenda Rubber
342 West Avenue
PO Box 157
Tallmadge, Ohio 44278



Dear Mr. Wang,

Indoor tread wear testing was performed on three ST205/75D15 tires. Tire one was a LoadStar K550, tire two a Wanda H188 and tire three a Carrier Star ST 5000. The LoadStar was run 600 miles, the Wanda was stopped at 400 miles due to excessive tread loss and the Carrier Star was run 600 miles.

Summary of results:

Loadstar K550 600miles
Weight loss = 0.64lbs
Average tread loss across all ribs = 0.048"

Wanda H188 400miles
Weight loss = 1.92lbs
Average tread loss across all ribs = 0.129"

Carrier Star ST5000 600miles
Weight loss = 1.92lbs
Average tread loss across all ribs = 0.132"

In Summary:

- (1). The Wanda H188 ran 200 miles less and lost three times as much weight and lost close to three times the tread depth compared to the LoadStar K550.
- (2). The Carrier Star ST5000 ran the same mileage and lost three times as much weight and close to three times the tread depth compared to the Loadstar K550.

Sincerely,



Project Engineer

Smithers Rapra North America -Ravenna Laboratories

LoadStar K550 Hand gauge measurements						
	inside					outside
mileage	shoulder	2	3	4	5	shoulder
0	0.362	0.327	0.298	0.297	0.325	0.359
600	0.305	0.287	0.264	0.261	0.278	0.283
At Serial 0 Degrees						
mileage	inside shoulder	2	3	4	5	outside shoulder
0	0.361	0.327	0.298	0.296	0.326	0.358
600	0.305	0.287	0.262	0.262	0.277	0.279
120 Degrees						
mileage	inside shoulder	2	3	4	5	outside shoulder
0	0.362	0.327	0.297	0.299	0.325	0.358
600	0.308	0.289	0.268	0.268	0.281	0.292
240 Degrees						
mileage	inside shoulder	2	3	4	5	outside shoulder
0	0.363	0.327	0.298	0.296	0.325	0.361
600	0.302	0.284	0.263	0.254	0.277	0.278
miles	Tire and rim weight (lbs)					
0	38.88 loss					
600	38.24 0.64					
Total						

Carrier Star ST 5000 Hand gauge measurements						
	inside					outside
mileage	shoulder	2	3	4	5	shoulder
0	0.281	0.264	0.239	0.236	0.251	0.259
400	0.157	0.171	0.179	0.184	0.201	0.166
600	0.093	0.112	0.118	0.129	0.169	0.115
At Serial 0 Degrees						
mileage	inside shoulder	2	3	4	5	outside shoulder
0	0.283	0.268	0.237	0.239	0.260	0.266
400	0.170	0.179	0.180	0.191	0.208	0.175
600	0.115	0.130	0.130	0.145	0.186	0.125
120 Degrees						
mileage	inside shoulder	2.000	3.000	4.000	5.000	outside shoulder
0	0.278	0.263	0.243	0.232	0.250	0.250
400	0.148	0.162	0.175	0.180	0.199	0.160
600	0.075	0.096	0.107	0.112	0.160	0.115
240 Degrees						
mileage	inside shoulder	2.000	3.000	4.000	5.000	outside shoulder
0	0.281	0.261	0.238	0.238	0.244	0.260
400	0.153	0.172	0.181	0.180	0.197	0.162
600	0.090	0.110	0.118	0.130	0.160	0.105
miles	Tire and rim weight (lbs)					
0	42.8 loss					
400	41.76 1.06					
600	40.90 0.86					
Total 1.92						

Wanda H188 Hand gauge measurements						
	inside					outside
mileage	shoulder	2	3	4	5	shoulder
0	0.252	0.249	0.233	0.231	0.250	0.252
400	0.109	0.136	0.120	0.092	0.137	0.098
At Serial 0 Degrees						
mileage	inside shoulder	2	3	4	5	outside shoulder
0	0.251	0.250	0.233	0.231	0.252	0.250
400	0.111	0.137	0.123	0.101	0.140	0.105
120 Degrees						
mileage	inside shoulder	2	3	4	5	outside shoulder
0	0.252	0.248	0.233	0.231	0.248	0.252
400	0.108	0.138	0.112	0.085	0.140	0.097
240 Degrees						
mileage	inside shoulder	2	3	4	5	outside shoulder
0	0.252	0.250	0.233	0.231	0.251	0.253
400	0.108	0.132	0.124	0.090	0.130	0.091
miles	Tire and rim weight (lbs)					
0	38.38 loss					
400	36.46 1.92					
Total						

tire weight
loss after 600 miles

SUMMARY

#1	Kenda Loadstar	0.64
#2	Carrier Star	1.92
#3	Wanda H188	2.88

The Wanda tire was stopped after 400 miles due to excessive wear.

