

Smooth and 1000 hz Roller Data										
	A	B	C	D	E	F	G	H	I	J
	watts	Crr	watts	Crr	deg F	deg F	watts	Crr	watts	watts
KS 23										
Pressure										
150 psig	107.0	0.00268	143.0	0.00370	23.0	22.0	41.3	0.00303	16.1	57.4
140	108.0	0.00271	145.0	0.00376	21.0	24.0	41.3	0.00305	16.2	57.5
130	109.0	0.00273	148.0	0.00383	23.0	23.0	41.3	0.00314	16.7	58.0
120	114.9	0.00291	151.0	0.00393	23.0	24.0	41.3	0.00325	17.3	58.6
110	117.8	0.00298	153.0	0.00398	23.0	25.0	41.3	0.00339	18.0	59.3
100	123.7	0.00316	158.0	0.00414	25.0	26.0	41.3	0.00356	18.9	60.2
90	126.7	0.00325	162.0	0.00423	28.0	28.0	40.0	0.00379	20.1	60.1
80	136.5	0.00355	170.0	0.00466	30.0	30.0	40.0	0.00413	21.9	61.9
KS 20										
Pressure										
150 psig	115.6	0.00293	150.1	0.00394	25.0	27.0	41.3	0.00336	17.9	59.2
140	116.6	0.00295	150.1	0.00395	24.0	27.0	41.3	0.00342	18.2	59.5
130	120.5	0.00305	153.1	0.00400	25.0	31.0	41.3	0.00353	18.8	60.1
120	123.5	0.00315	157.1	0.00413	25.0	32.0	41.3	0.00362	19.2	60.5
110	127.5	0.00327	158.0	0.00416	27.0	32.0	40.0	0.00379	20.1	60.1
100	133.4	0.00344	162.0	0.00428	28.0	32.0	38.8	0.00399	21.2	60.0
90	142.3	0.00367	166.0	0.00440	30.0	33.0	36.3	0.00430	22.8	59.1
80	152.2	0.00397	175.9	0.00467	28.0	36.0	35.0	0.00455	24.2	59.2
GP4000										
Pressure										
150 psig	146.2	0.00370	178.9	0.00462	33.0	38.0	45.0	0.00452	24.0	69.0
140	146.2	0.00370	182.9	0.00473	31.0	40.0	45.0	0.00458	24.3	69.3
130	150.2	0.00382	183.9	0.00476	33.0	38.0	46.3	0.00464	24.6	70.9
120	150.2	0.00384	183.9	0.00473	35.0	39.0	47.5	0.00472	25.1	72.6
110	158.1	0.00403	189.9	0.00491	36.0	43.0	46.3	0.00489	26.0	72.3
100	158.1	0.00403	190.8	0.00492	35.0	41.0	46.3	0.00506	26.9	73.2
90	164.0	0.00422	199.8	0.00521	40.0	46.0	46.3	0.00529	28.1	74.4
80	170.9	0.00442	200.8	0.00525	42.0	43.0	46.3	0.00557	29.6	75.9
Zipp New										
Pressure										
150 psig	109.7	0.00269	141.1	0.00355	20.0	20.0	34.0	0.00304	16.2	50.2
140	109.7	0.00270	140.2	0.00353	20.0	20.0	34.0	0.00305	16.2	50.2
130	111.6	0.00273	142.1	0.00360	21.0	22.0	34.0	0.00317	16.8	50.8
120	114.6	0.00282	144.1	0.00367	22.0	21.0	33.0	0.00325	17.3	50.3
110	118.6	0.00293	149.1	0.00379	26.0	23.0	31.0	0.00342	18.2	49.2
100	122.5	0.00304	151.1	0.00380	24.0	24.0	31.0	0.00353	18.8	49.8
90	127.5	0.00318	157.1	0.00405	26.0	25.0	34.0	0.00375	19.9	53.9
80	135.4	0.00339	168.0	0.00431	26.0	25.0	34.0	0.00401	21.3	55.3
A	Smooth Roller Power Corrected for Ambient Temperature to 68F Datum Using 0.6%/deg F									
B	Smooth Roller Crr calculated from Tom's Spreadsheet from Column A									
C	1000 hz Roller Power Corrected for Ambient Temperature to 68F Datum Using 0.6%/deg F									
D	1000 hz Roller Crr calculated from Tom's Spreadsheet from Column C									
E	Tire Temperature Increase - Smooth Roller									
F	Tire Temperature Increase - 1000 hz Roller									
G	Vibration Power = Difference of 1000 hz Roller data and Smooth Roller Data**									
	** Data Temp corrected & plotted then curve fit - Difference from curves not raw measurements									
H	Crr from Temp Corrected Smooth Roller Data (0.6%/deg F) using Tom's Spreadsheet									
I	Power for one wheel using Crr from Column H, 108 lb load, 40 km/hr									
J	Sum of Vibration and Smooth Power - Column G + I									