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How to chart you VAGCOM/VCDS logs - HI-Res, small size pics



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07-03-2008, 10:28 AM

#1

funny

DSG & VCDS guru & new Dad



Drives: Silver DSG MY07 GTI
 Join Date: Mar 2007
 Location: Sydney
 Posts: 2,883

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How to chart you VAGCOM/VCDS logs - HI-Res, small size pics

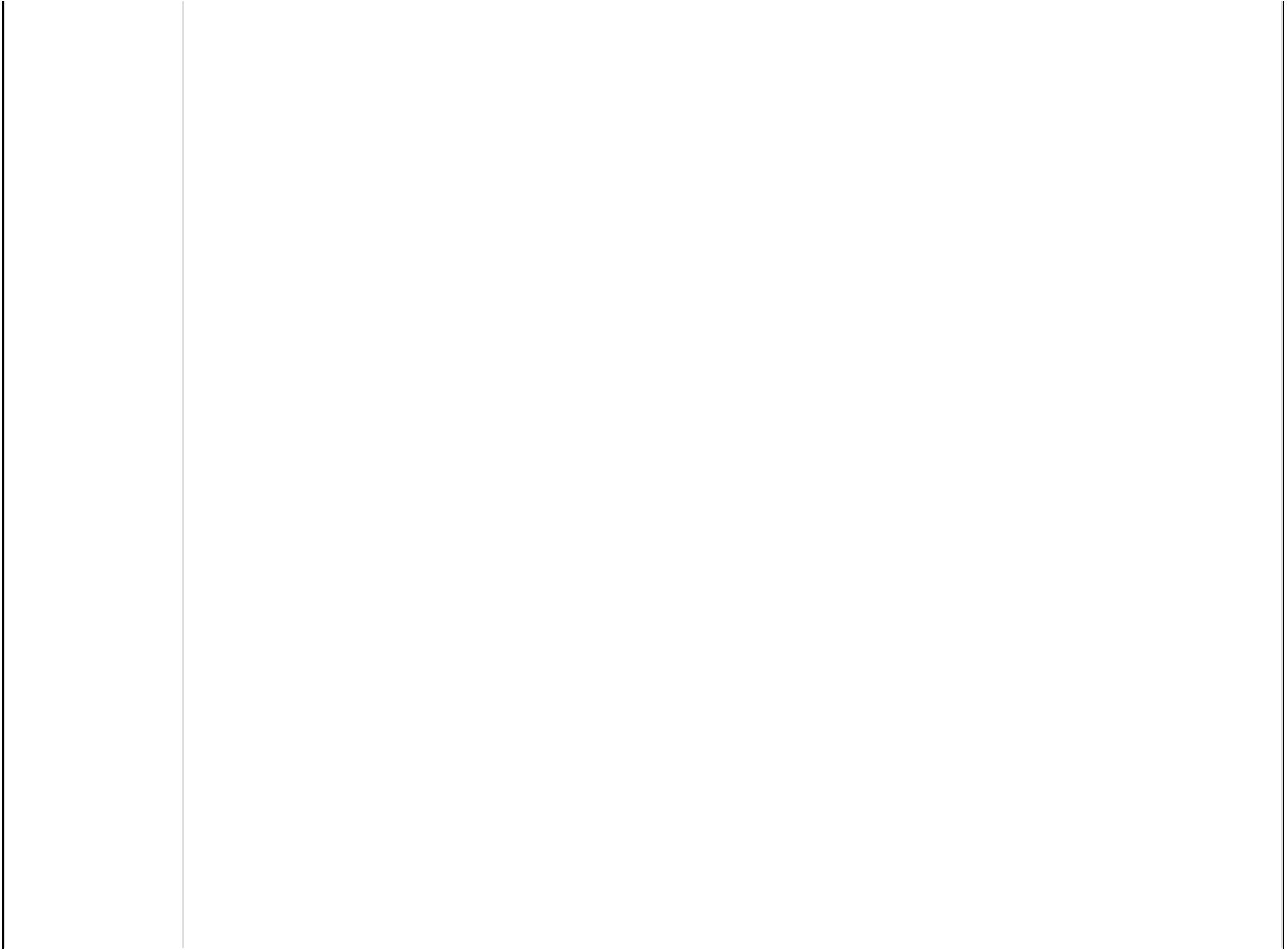
So there's a lot of new VAGCOM/VCDS cable owners out there recently, and I'm sure you're wondering how we get all those fancy graphs.

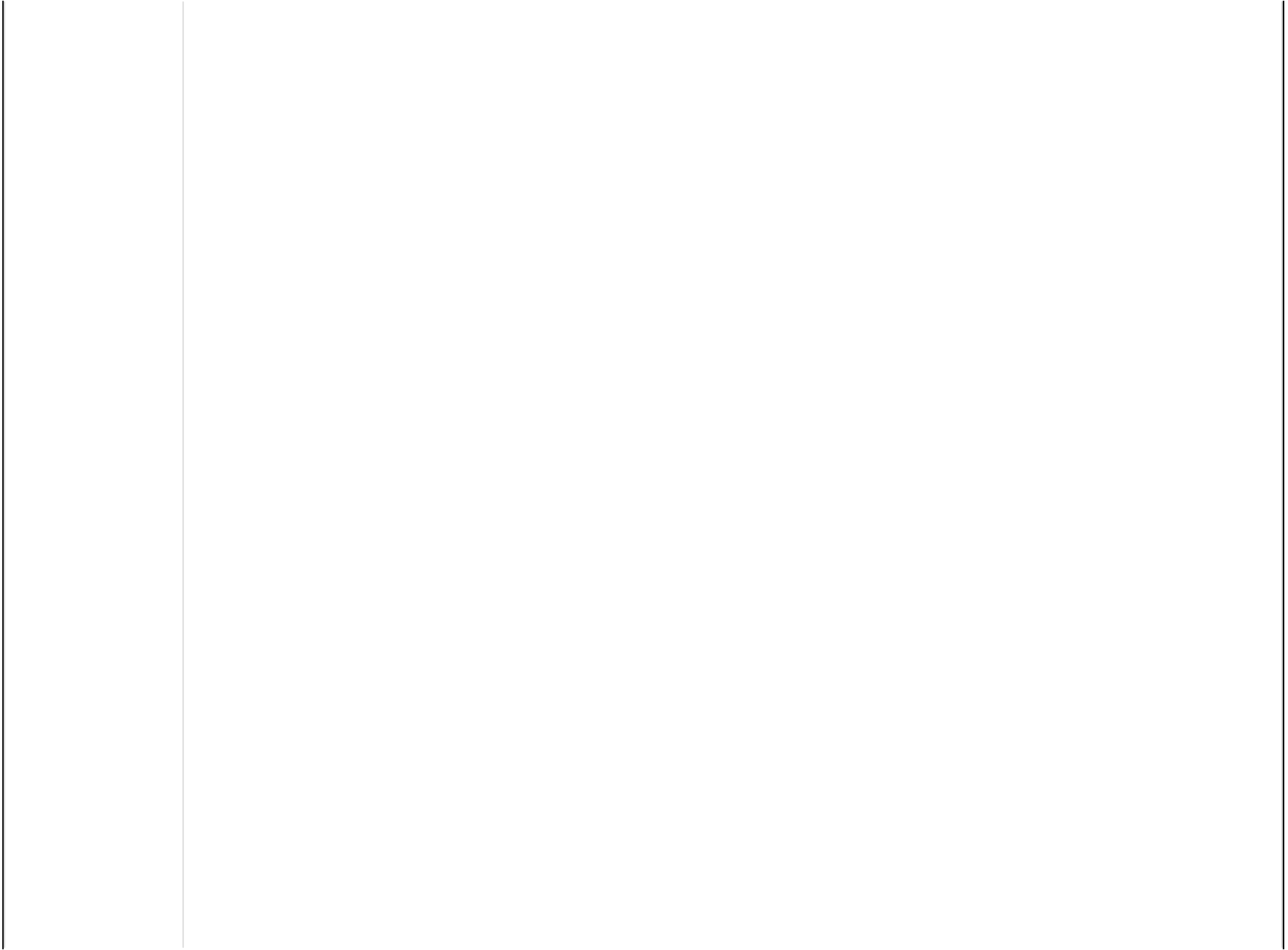
Fear no more! You'll be graphing like a pro in MS Excel in no time with this handy tutorial! 🙌

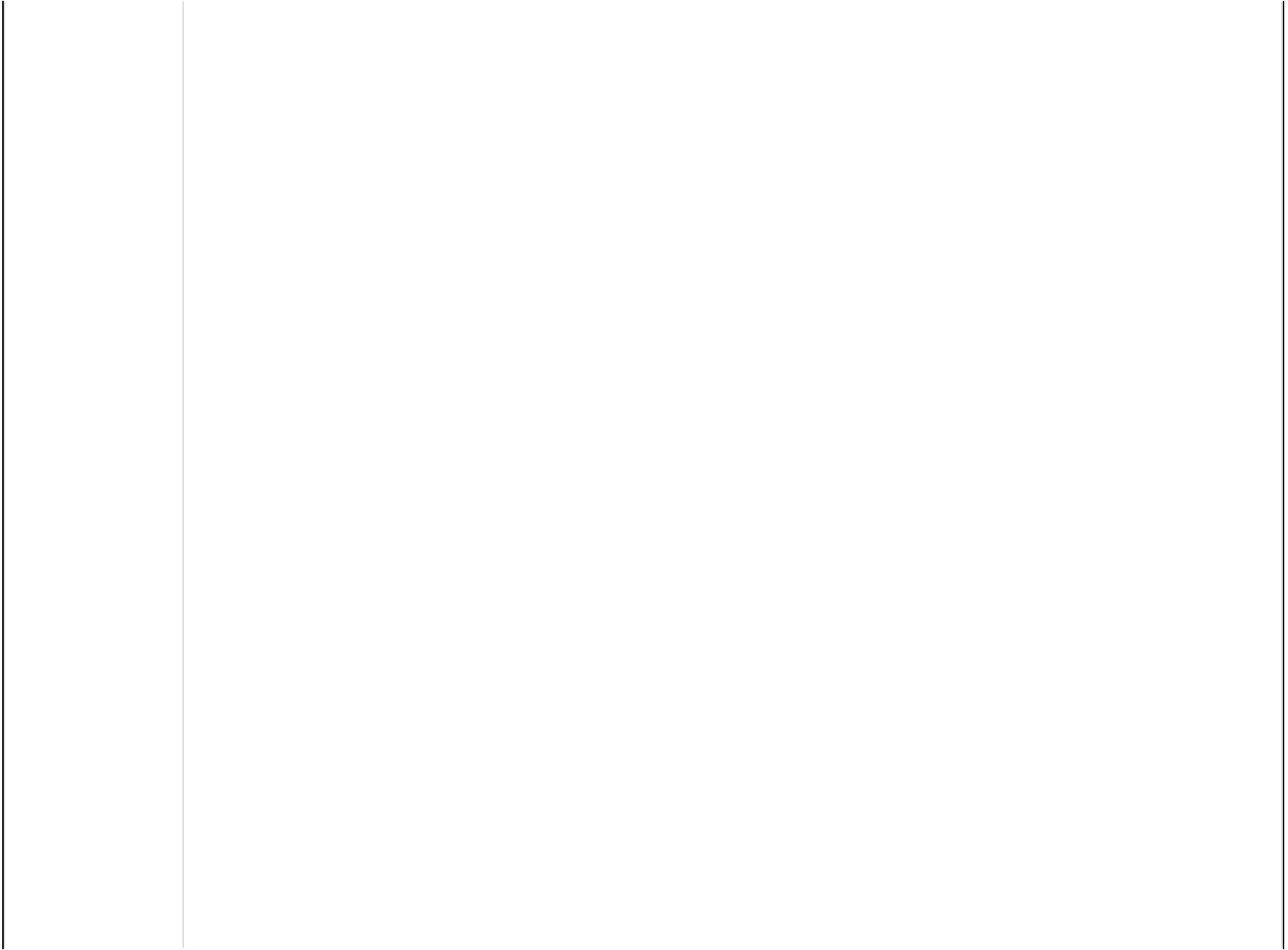
I'll be using logs from the older VAGCOM 704 version. And I'm assuming your not a total dummy...

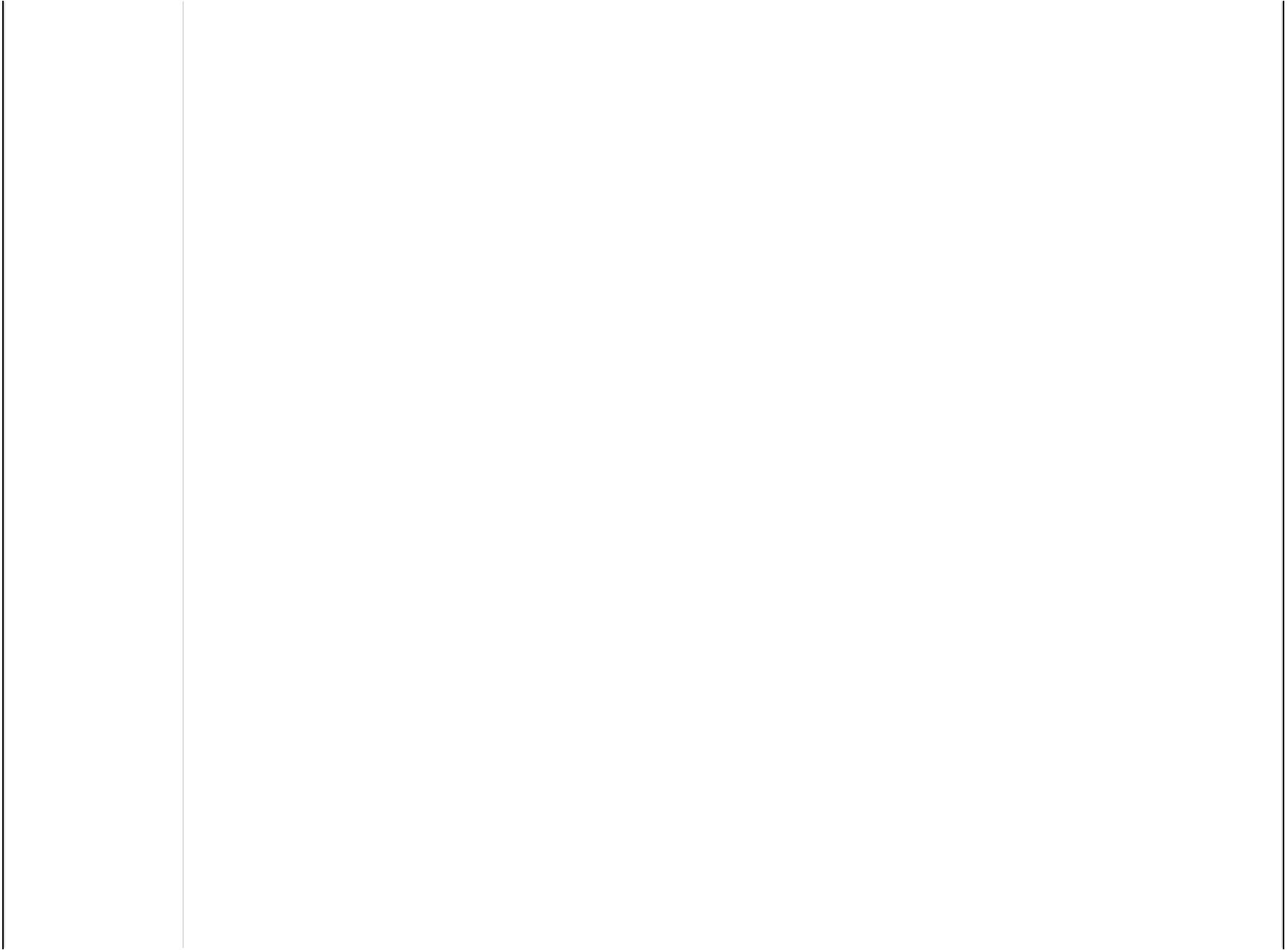
Get your CSV file imported into Excel. Use the inbuilt help if you need to - it's quite self explanatory and default settings worked for me.

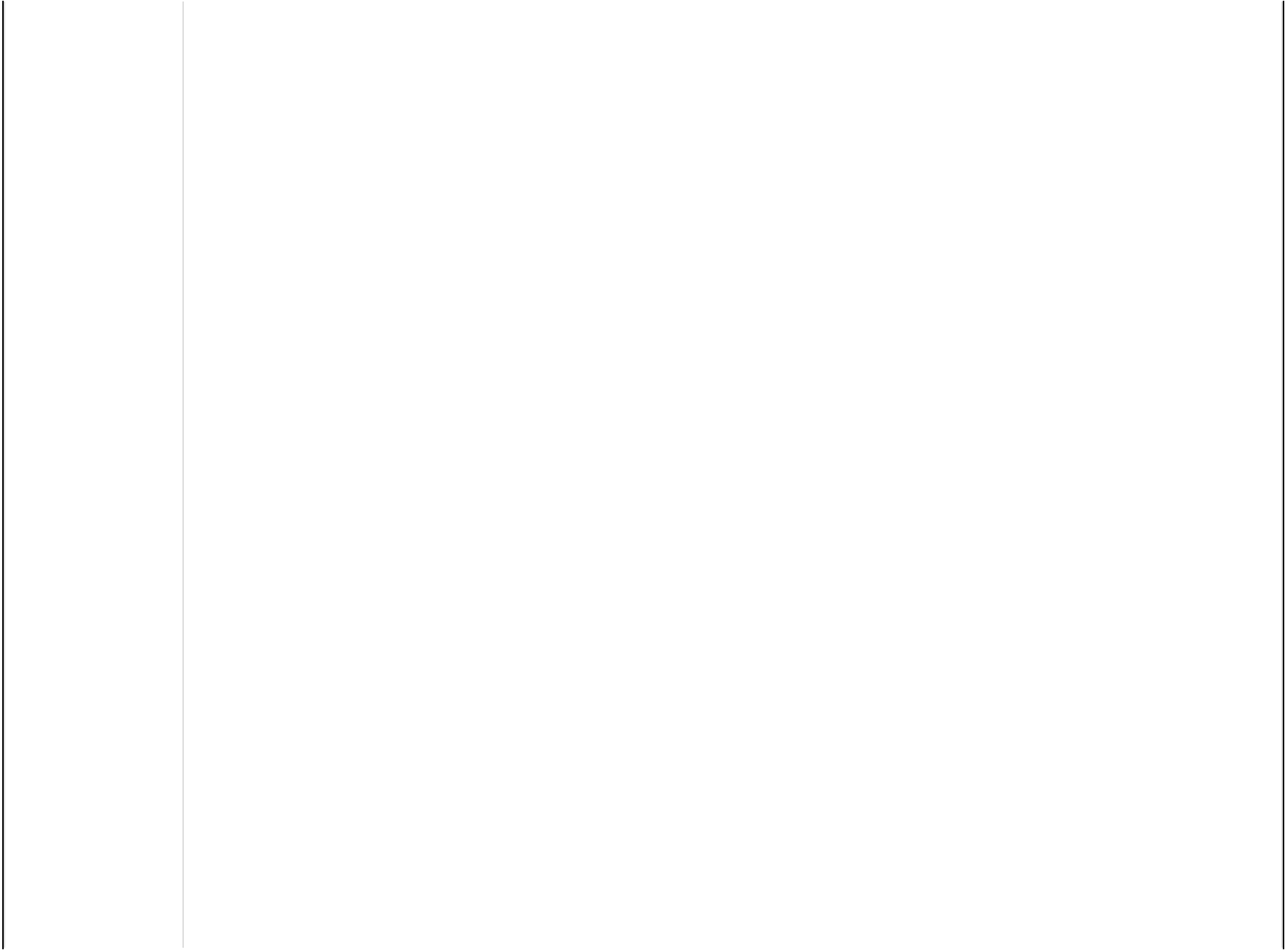
You should get something like this

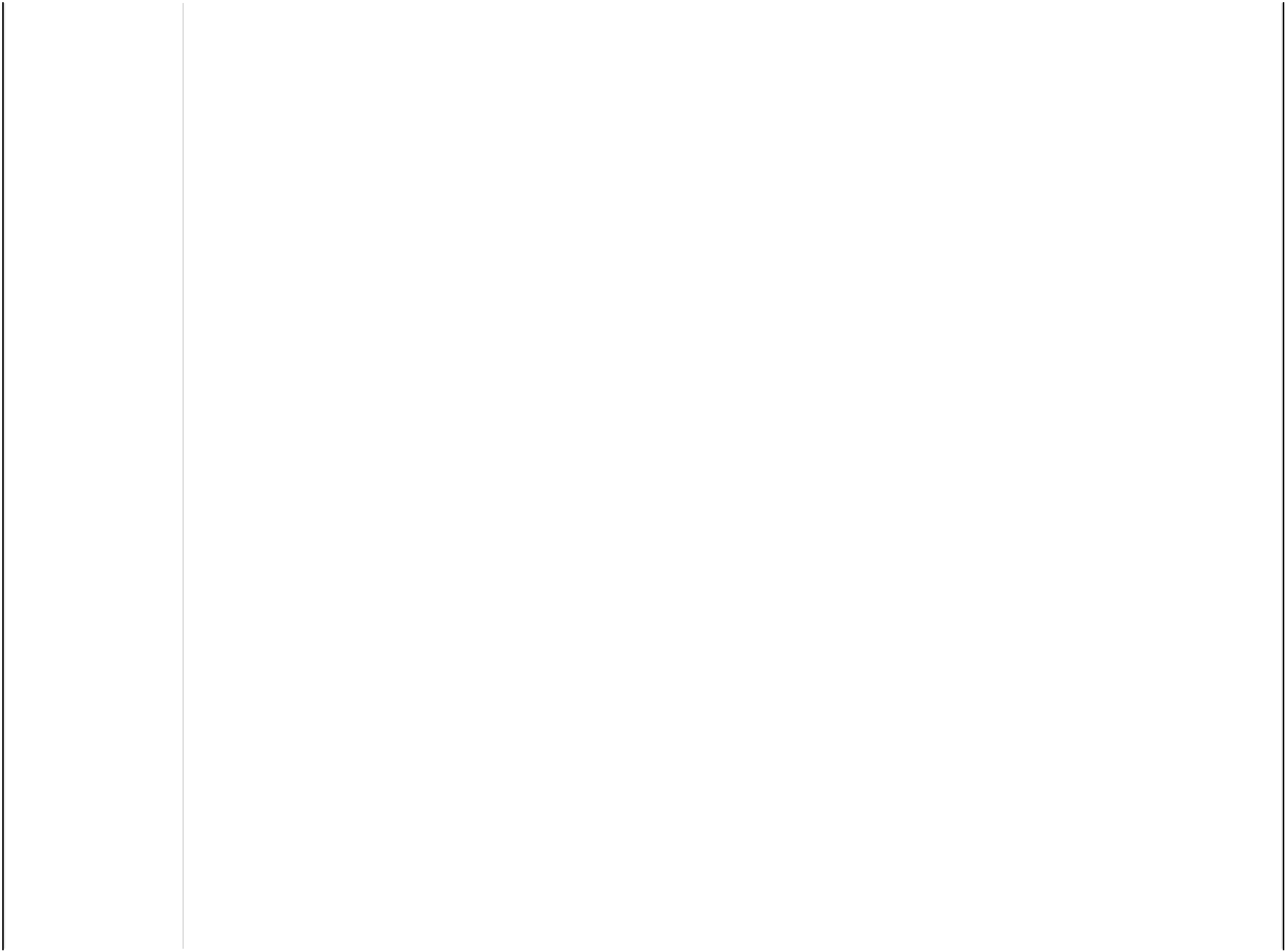












Microsoft Excel - LOG-01-034-112-xxx.xls

File Edit View Insert Format Tools Data Window Help

C198 880

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Sunday	11	May	2008	11:19:08									
2														
3														
4		Group A:	'034				Group B:	'112				Group C:	Not Running	
5		TIME	Engine Sp	Catalytic C	Period	Result	Exhaust Te	Enrichmer	Exhaust Te	Median				
6		TIME	Temperatu	Duration S	Lambda A	TIME	Bank 1	Sensor Ba	Projection	Exhaust Te	TIME			
7	Marker	STAMP	/min	°C			STAMP	%	°C	°C	STAMP			
8		0.01	2640	576	1.27	Test ON	0.06	0	672	672				
9		0.12	2720	576	1.27	Test ON	0.18	0	672	672				
10		0.3	2840	576	1.27	Test ON	0.37	0	678	678				
11		0.44	2920	582	1.27	Test ON	0.5	0	684	684				
12		0.56	3000	582	1.27	Test ON	0.62	0	690	690				
13		0.68	3080	588	1.27	Test ON	0.81	0	696	696				
14		0.87	3160	594	1.28	Test ON	0.94	0	696	696				
15		1	3200	594	1.28	Test ON	1.07	0	696	696				
16		1.12	3280	594	1.28	Test ON	1.19	0	696	696				
17		1.31	3240	600	1.28	Test ON	1.37	0	702	702				
18		1.44	3040	606	1.28	Test OFF	1.5	0	708	708				
19		1.56	2760	606	1.28	Test OFF	1.63	0	714	714				
20		1.69	2480	606	1.28	Test OFF	1.81	0	720	720				
21		1.88	2320	606	1.28	Test OFF	1.94	0	720	720				
22		2	2240	606	1.28	Test OFF	2.06	0	726	726				
23		2.13	2200	618	1.28	Test OFF	2.19	0	726	726				
24		2.31	2240	624	1.28	Test OFF	2.37	0	726	726				
25		2.44	2320	624	1.28	Test OFF	2.5	0	726	726				
26		2.56	2400	624	1.28	Test OFF	2.62	0	732	732				
27		2.69	2480	630	1.28	Test OFF	2.81	0	732	732				
28		2.87	2600	630	1.28	Test OFF	2.94	0	732	732				
29		3	2640	630	1.28	Test OFF	3.06	0	738	738				
30		3.12	2720	630	1.28	Test OFF	3.19	0	738	738				
31		3.3	2800	636	1.28	Test OFF	3.37	0	738	738				
32		3.43	2560	636	1.28	Test OFF	3.5	0	750	750				
33		3.56	2520	636	1.28	Test OFF	3.62	0	762	762				
34		3.69	2480	642	1.28	Test OFF	3.8	0	762	762				
35		3.87	2360	648	1.28	Test OFF	3.94	0	774	774				
36		4	2280	648	1.28	Test OFF	4.06	0	780	780				
37		4.12	2200	660	1.28	Test OFF	4.18	0	780	780				
38		4.3	2200	672	1.28	Test OFF	4.37	0	780	780				
39		4.43	2200	672	1.28	Test OFF	4.5	0	786	786				
40		4.5	2200	672	1.28	Test OFF	4.6	0	786	786				

Chart1 LOG-01-034-112-xxx

Ready

Select your data as required. Markers that you can set with VAGCOM come in useful here.
 Here I've selected the data near Marker 1. I started here as the data (EGTs in this case) is stable and a low point to start from and rpm is low.

Microsoft Excel - LOG-01-034-112-xxx.xls

File Edit View Insert Format Tools Data Window Help

C198 880

	A	B	C	D	E	F	G	H	I	J	K	L
46		5.44	2280	708	1.28	Test OFF	5.5		0	858	858	
47		5.56	2280	708	1.28	Test OFF	5.63		0	876	876	
48		5.69	2280	726	1.28	Test OFF	5.81		0	876	876	
49		5.88	2320	738	1.28	Test OFF	5.94		0	888	888	
50		6	2320	738	1.28	Test OFF	6.06		0	900	900	
51		6.12	2360	750	1.28	Test OFF	6.19		0	900	900	
52		6.31	2360	762	1.28	Test OFF	6.37		0	906	906	
53		6.44	2320	768	1.28	Test OFF	6.5		0	912	912	
54		6.56	2320	768	1.28	Test OFF	6.62		0	900	900	
55		6.69	2320	774	1.28	Test OFF	6.81		0	900	900	
56		6.87	2320	780	1.28	Test OFF	6.94		0	894	894	
57		7	2320	780	1.28	Test OFF	7.06		0	888	888	
58		7.12	2280	774	1.28	Test OFF	7.19		0	888	888	
59		7.3	2280	768	1.28	Test OFF	7.37		0	882	882	
60		7.44	2280	762	1.28	Test OFF	7.5		0	876	876	
61		7.56	2280	762	1.28	Test OFF	7.62		0	876	876	
62		7.69	2320	756	1.28	Test OFF	7.81		0	876	876	
63	1	7.88	2400	756	1.28	Test OFF	7.94		0	876	876	
64		8	2440	756	1.28	Test OFF	8.06		0	870	870	
65		8.12	2520	750	1.28	Test OFF	8.19		0	870	870	
66		8.3	2560	750	1.28	Test OFF	8.37		0	870	870	

Look for the high point in the rev range to end the data.
 In this case the dataset is extended as I wanted to see how quickly temps dropped after throttle was backed off.

Microsoft Excel - LOG-01-034-112-xxx.xls

File Edit View Insert Format Tools Data Window Help

100% Arial 10 B

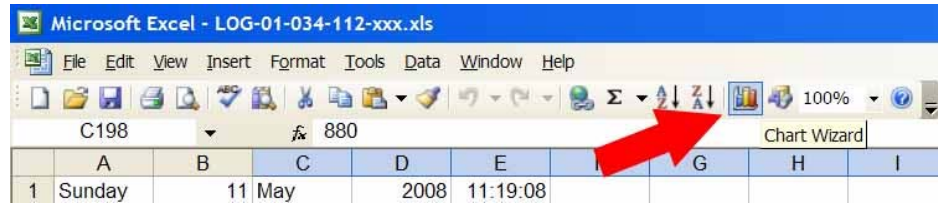
C198 880

	A	B	C	D	E	F	G	H	I	J	K	L
134		18	6120	828	1.28	Test OFF	18.07		0	960	960	
135		18.13	6120	828	1.28	Test OFF	18.19		0	960	960	
136		18.25	6160	834	1.28	Test OFF	18.31		0	960	960	
137		18.43	6240	834	1.28	Test OFF	18.5		0	966	966	
138		18.56	6320	834	1.28	Test OFF	18.63		0	966	966	
139		18.69	6360	834	1.28	Test OFF	18.75		0	966	966	
140		18.81	6400	834	1.28	Test OFF	18.87		0	966	966	
141		18.94	6440	834	1.28	Test OFF	19.06		0	966	966	
142		19.12	6400	834	1.28	Test OFF	19.19		0	966	966	
143		19.25	6160	834	1.28	Test OFF	19.32		0	954	954	
144		19.37	5040	834	1.28	Test OFF	19.44		0	954	954	
145		19.56	4560	840	1.28	Test OFF	19.62		0	954	954	
146		19.69	4520	828	1.28	Test OFF	19.75		0	948	948	
147		19.81	4440	828	1.28	Test OFF	19.87		0	948	948	
148		19.94	4400	822	1.28	Test OFF	20.06		0	948	948	
149		20.12	4360	816	1.28	Test OFF	20.19		0	954	954	
150		20.25	4280	816	1.28	Test OFF	20.31		0	960	960	
151		20.37	4160	816	1.28	Test OFF	20.43		0	960	960	
152		20.5	4040	822	1.28	Test OFF	20.62		0	966	966	
153		20.69	3840	822	1.28	Test OFF	20.75		0	972	972	
154		20.81	3640	828	1.28	Test OFF	20.87		0	972	972	
155		20.94	3560	834	1.28	Test OFF	21		0	948	948	
156		21.12	3320	834	1.28	Test OFF	21.19		0	930	930	
157		21.25	3200	834	1.28	Test OFF	21.31		0	918	918	
158		21.37	3040	822	1.28	Test OFF	21.44		0	918	918	
159		21.5	2920	822	1.28	Test OFF	21.62		0	906	906	
160		21.69	2680	804	1.28	Test OFF	21.75		0	894	894	
161		21.82	2520	792	1.28	Test OFF	21.88		0	894	894	
162		21.94	2400	774	1.28	Test OFF	22		0	882	882	
163		22.12	2200	756	1.28	Test OFF	22.19		0	870	870	
164		22.25	2080	756	1.28	Test OFF	22.31		0	864	864	
165		22.38	1960	744	1.28	Test OFF	22.44		0	864	864	
166		22.5	1840	744	1.28	Test OFF	22.62		0	858	858	
167		22.69	1720	732	1.28	Test OFF	22.75		0	852	852	
168		22.81	1680	726	1.28	Test OFF	22.88		0	852	852	
169		22.94	1600	720	1.28	Test OFF	23		0	846	846	
170		23.12	1520	714	1.28	Test OFF	23.19		0	840	840	
171		23.25	1480	714	1.28	Test OFF	23.31		0	834	834	
172		23.37	1440	702	1.28	Test OFF	23.44		0	834	834	

Chart1 LOG-01-034-112-xxx

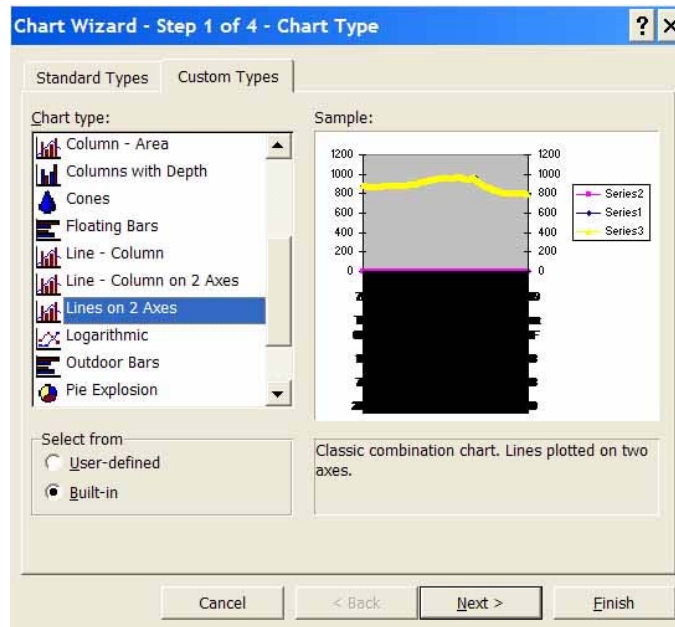
Ready

With data selected, hit the Chart Wizard button

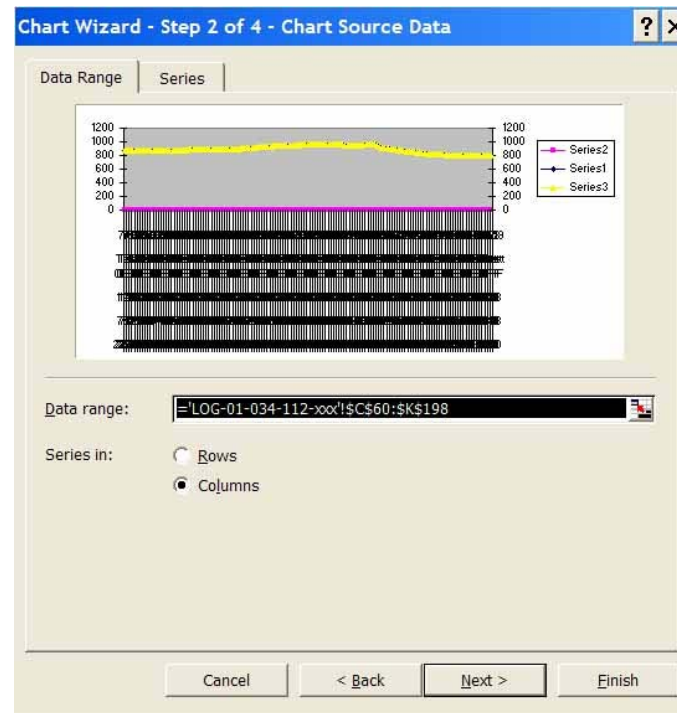


If your data range is similar and close together you can pick a simple line graph.

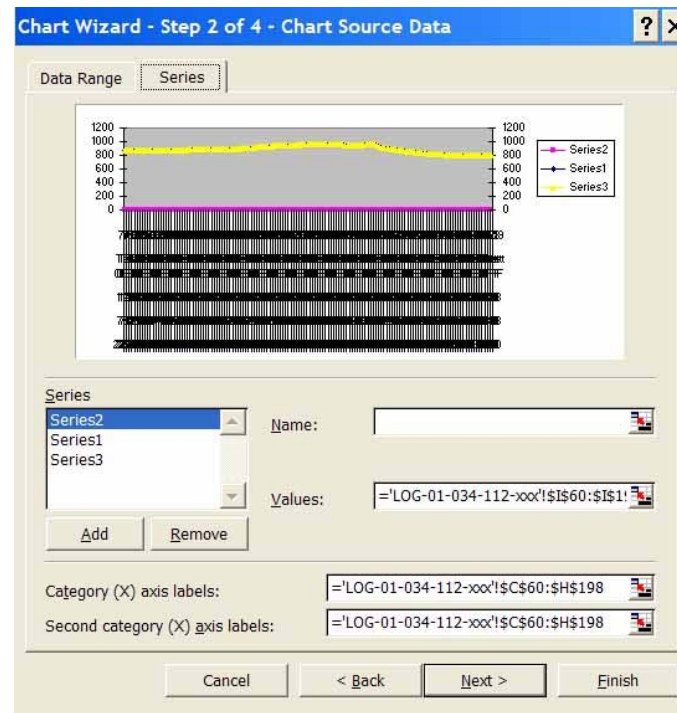
If you have a wide range you might need 2 different axes - pick the "Lines on 2 Axes" type under Custom tab (my graph won't use 2, but it'll let me show you the settings)



Hit the Series tab up the top in Step 2. Note the Series setting is columns.



Columns of data are set as series to pick from. Here you can name them as well as select the column of data to which it refers to. You can also pick the values for the X axes. Let's hit the small coloured checkered box next to the Value entry to see what the data is for this series.




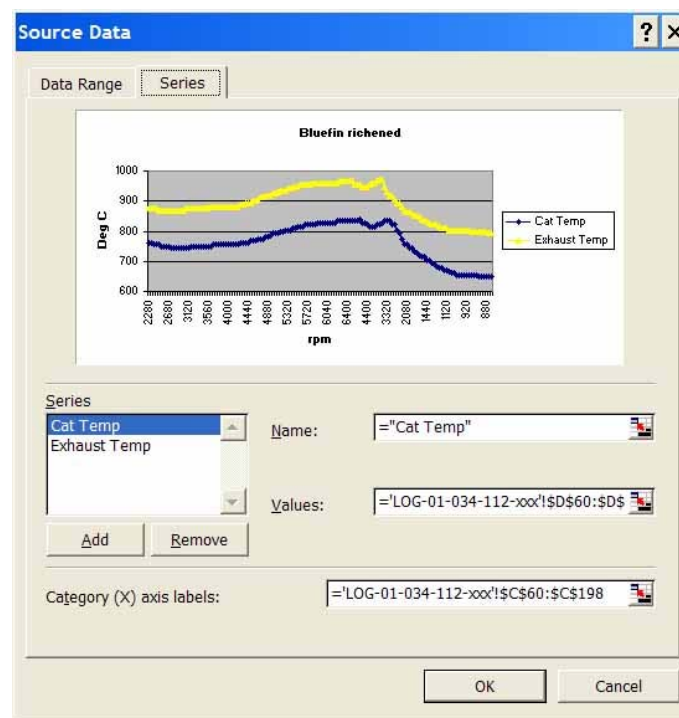
The column is highlighted. If it's not what you want, delete the entry in the typing box and select the new dataset by selecting with the mouse (hold left button and drag). If you don't want the series at all, then hit remove at the previous screen. Hit the coloured box to save, or close the subwindow to get back to the previous one.

The screenshot shows an Excel spreadsheet with the following data:

F	G	H	I	J	K	L	M	N	O	P	Q	R
Test OFF	7.5		0	876	876							
Test OFF	7.62		0	876	876							
Test OFF	7.81		0	876	876							
Test OFF	7.94		0	876	876							
Test OFF	8.06		0	870	870							
Test OFF	8.19		0	870	870							
Test OFF	8.37		0	870	870							
Test OFF	8.5		0	870	870							
Test OFF	8.62		0	870	870							
Test OFF	8.8		0	870	870							
Test OFF	8.93		0	870	870							
Test OFF	9.06		0	870	870							
Test OFF	9.19		0	870	870							
Test OFF	9.37		0	870	870							
Test OFF	9.5		0	870	870							
Test OFF	9.63		0	876	876							
Test OFF	9.81		0	876	876							
Test OFF	9.94		0	876	876							
Test OFF	10.06		0	876	876							

The Chart Wizard dialog box is open, showing the formula: `=LOG-01-034-112-xxx!I60:I198`.

Here's one I made earlier 



Now see part #2...

Funny

MY07 Reflex Silver GTI | DSG | Bi-Xenons | Leather | Park Sensors
Bluefin Neuspeed Torque Arm Insert H&R 22mm rear sway bar | Seat drawers
VAGCOM MicroCAN
Mainline dyno 156.9kW 329.9Nm atw

[How to chart your VAGCOM/VCDS logs](#)

[Tired of getting "flashed"? Here's how I aimed my bi-xenons...](#)

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07-03-2008, 10:33 AM #2

funny
DSG & VCDS guru
& new Dad



Drives: Silver DSG
MY07 GTI
Join Date: Mar
2007
Location: Sydney
Posts: 2,883

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Part 2 - How to chart you VAGCOM/VCDS logs - HI-Res, small size pics

You can enter labels on the next step. Primary X is bottom, Primary Y is left, Secondary are opposite sides to primary.

Chart Wizard - Step 3 of 4 - Chart Options

Titles | Axes | Gridlines | Legend | Data Labels | Data Table

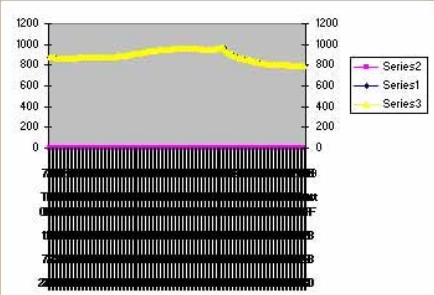
Chart title:

Category (X) axis:

Value (Y) axis:

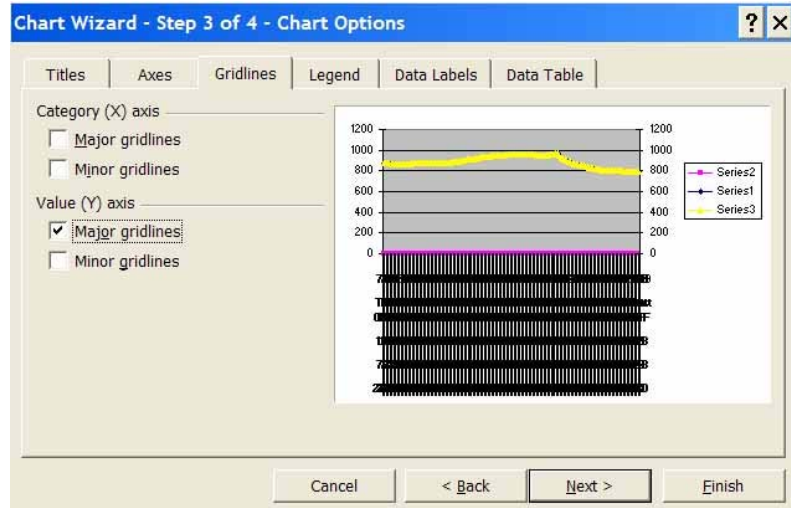
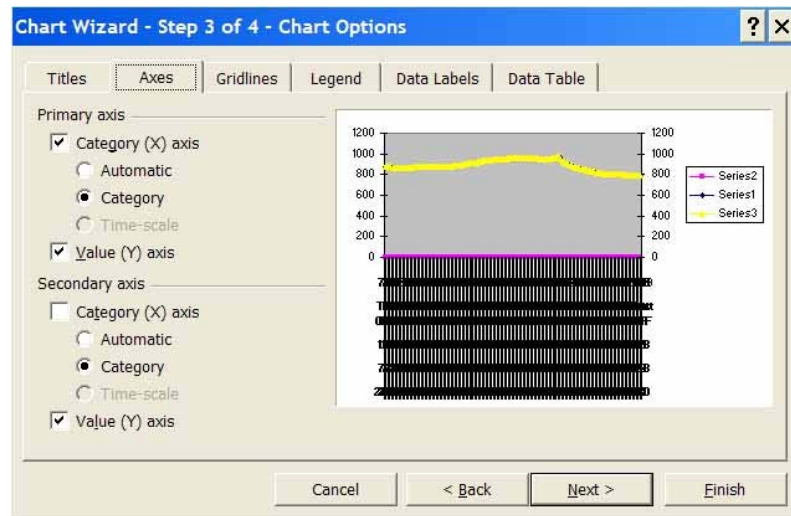
Second category (X) axis:

Second value (Y) axis:

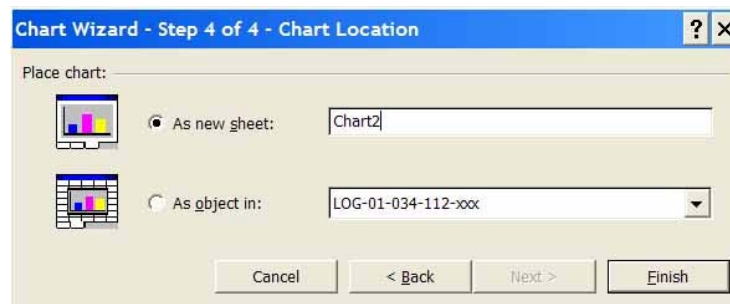


Cancel < Back Next > Finish

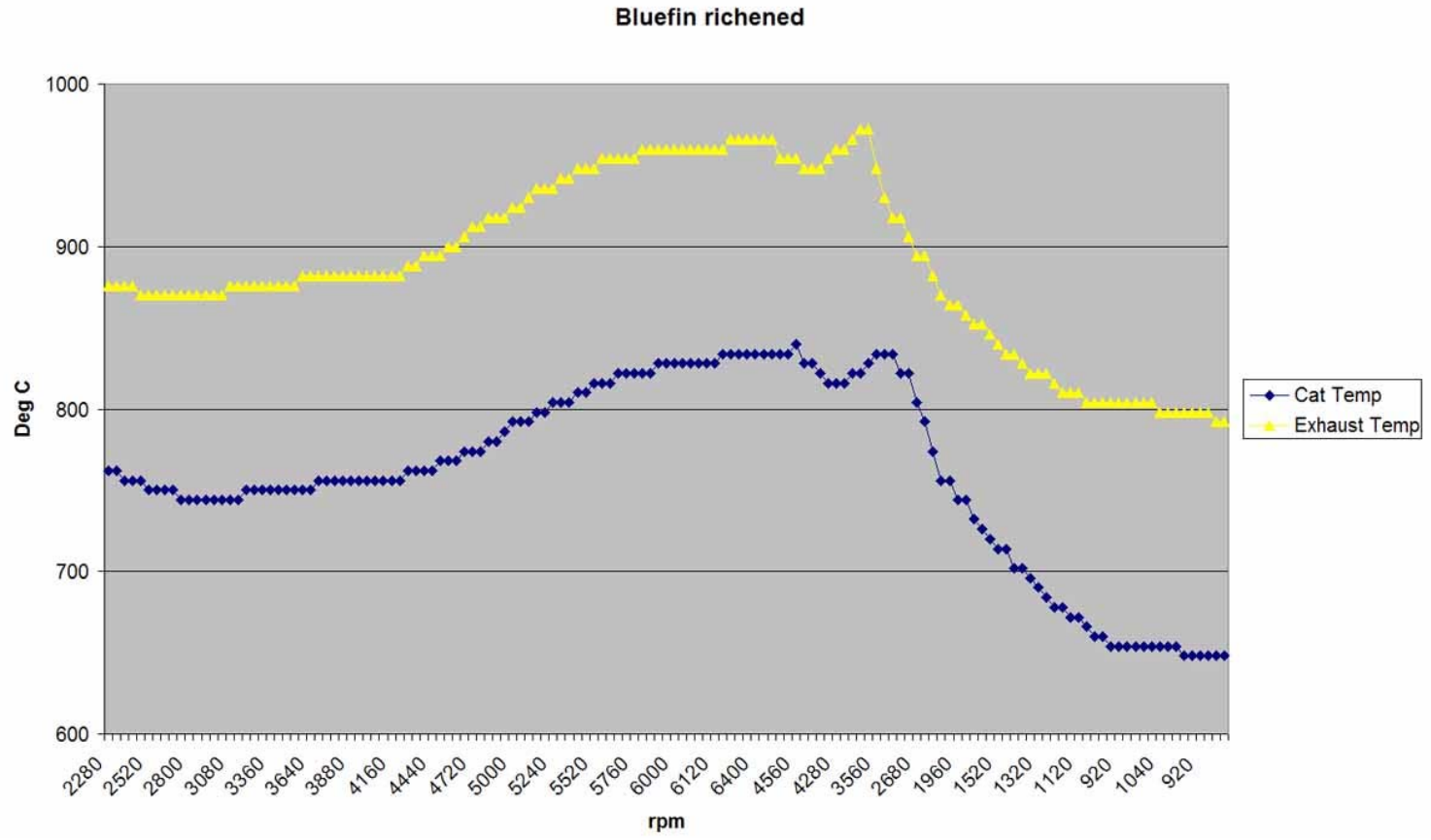
You can alter settings for the axes, etc at the next steps. Axes are usually ok on the default. I normally have major gridlines on to make it easier to read the graph. You'll be able to modify the grid later.



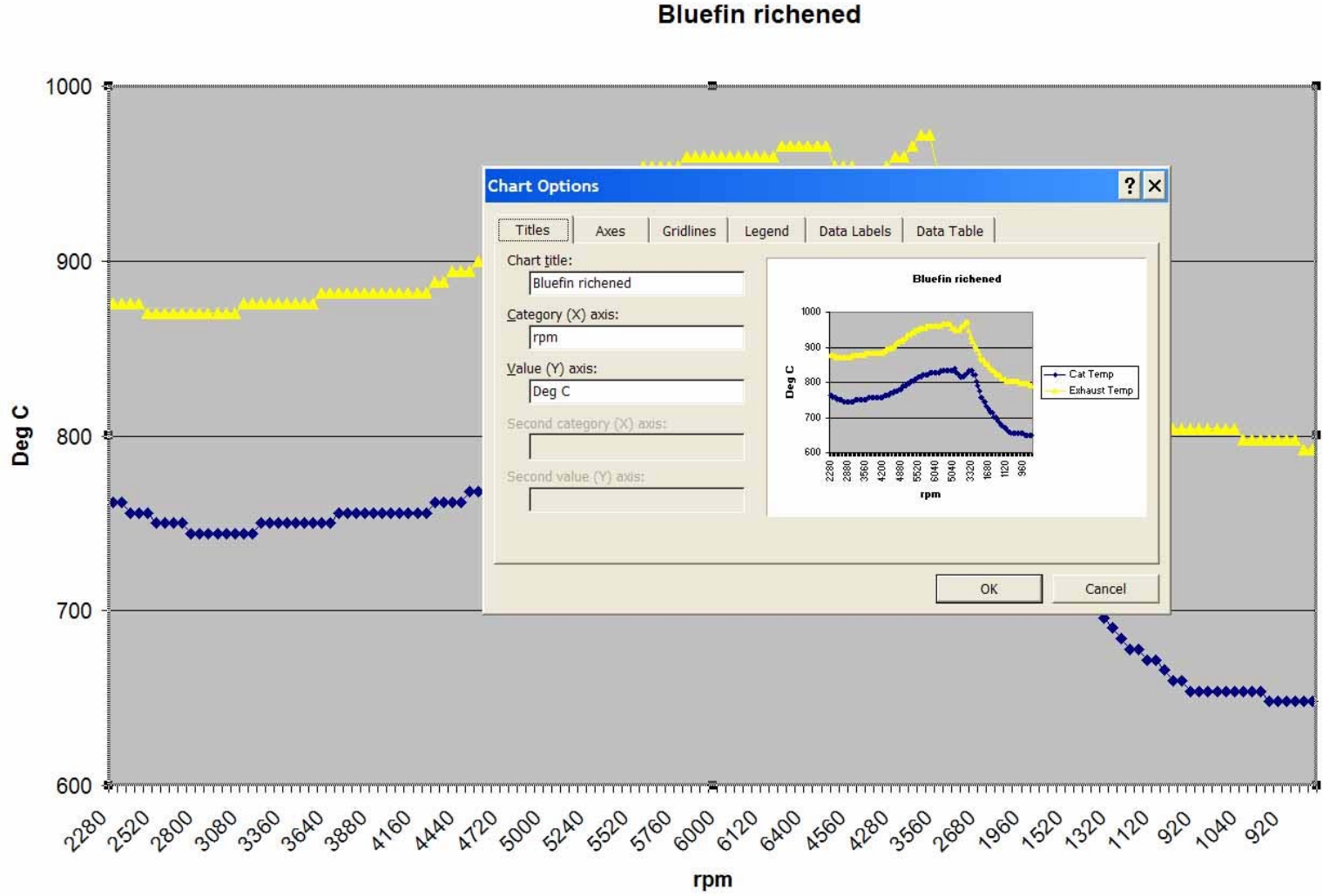
Save the chart as a new sheet. Name it if you want. The other option embeds the chart in your data sheet.



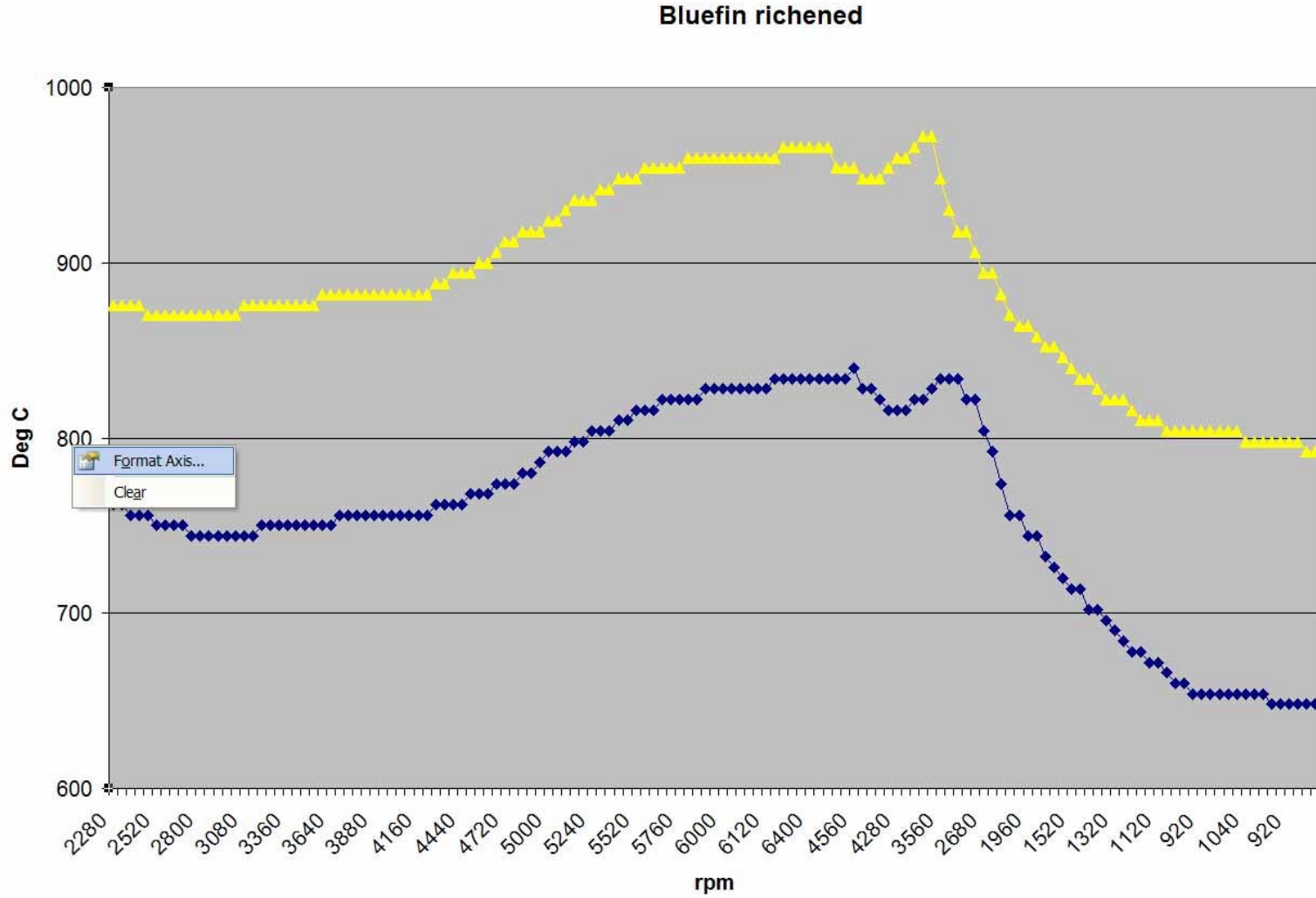
Et Voila!



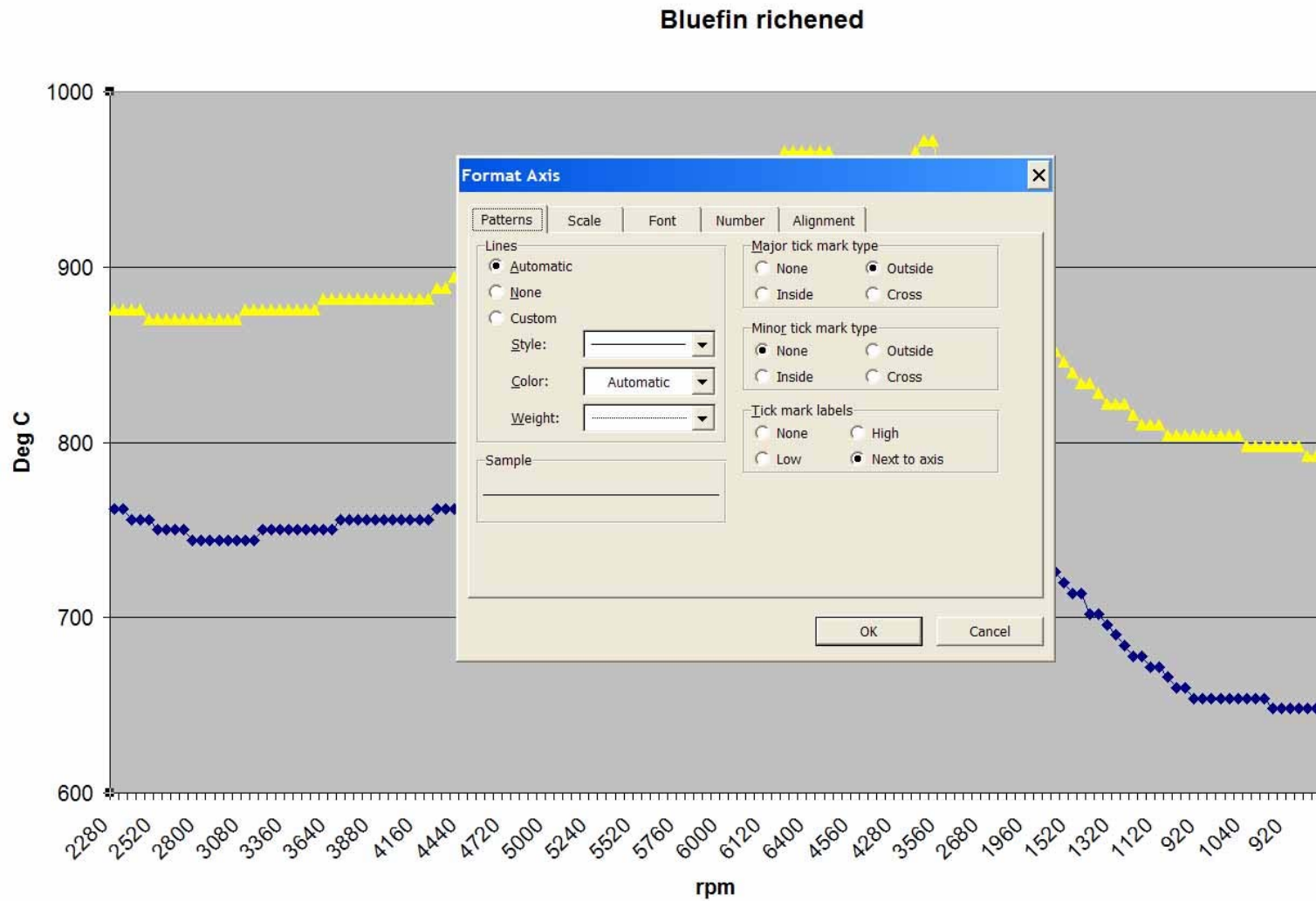
Right clicking in various areas will give you options to make changes to any of the previous steps. For example, here's my labels under chart options.



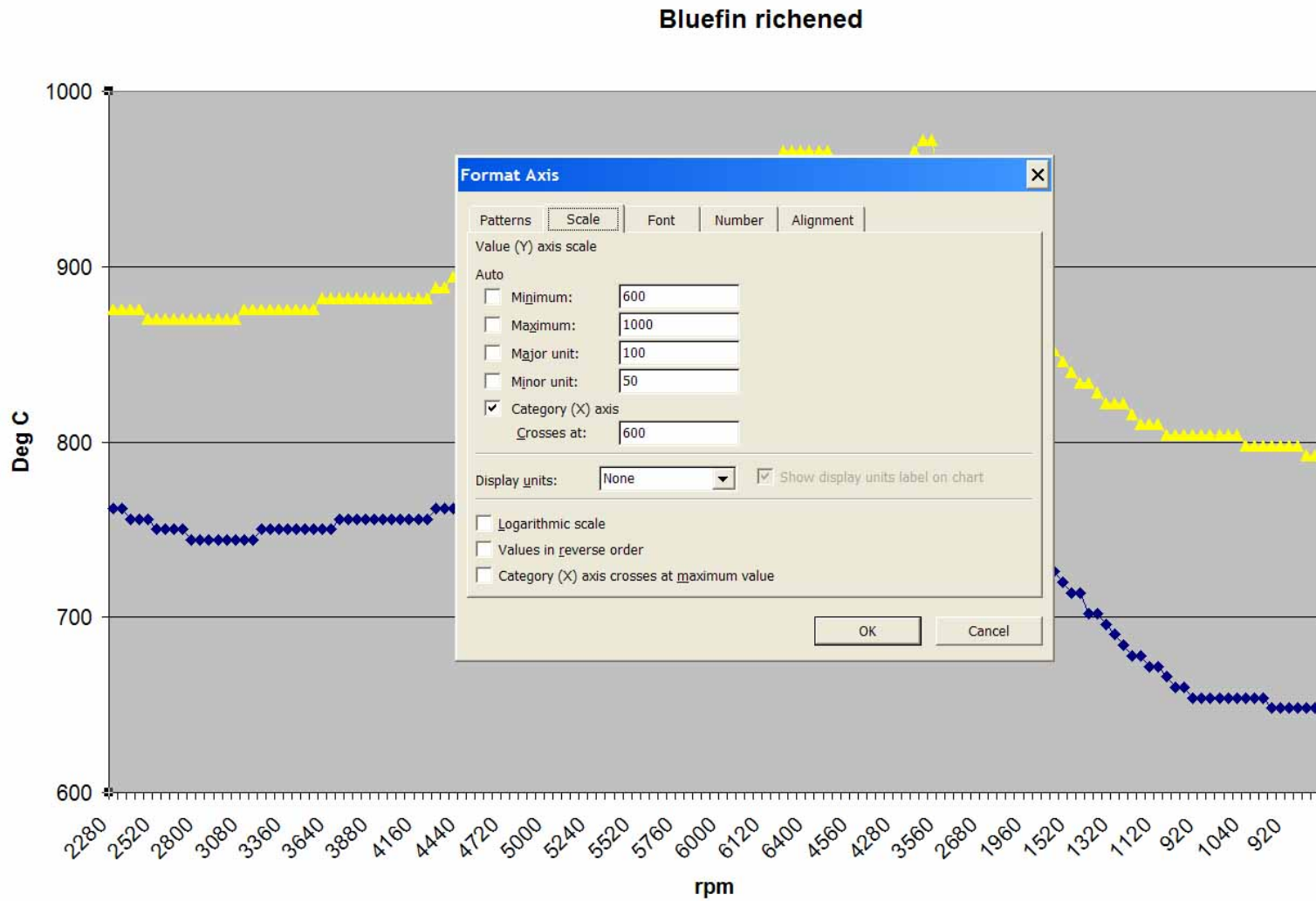
Right clicking on an axis will allow you to format it



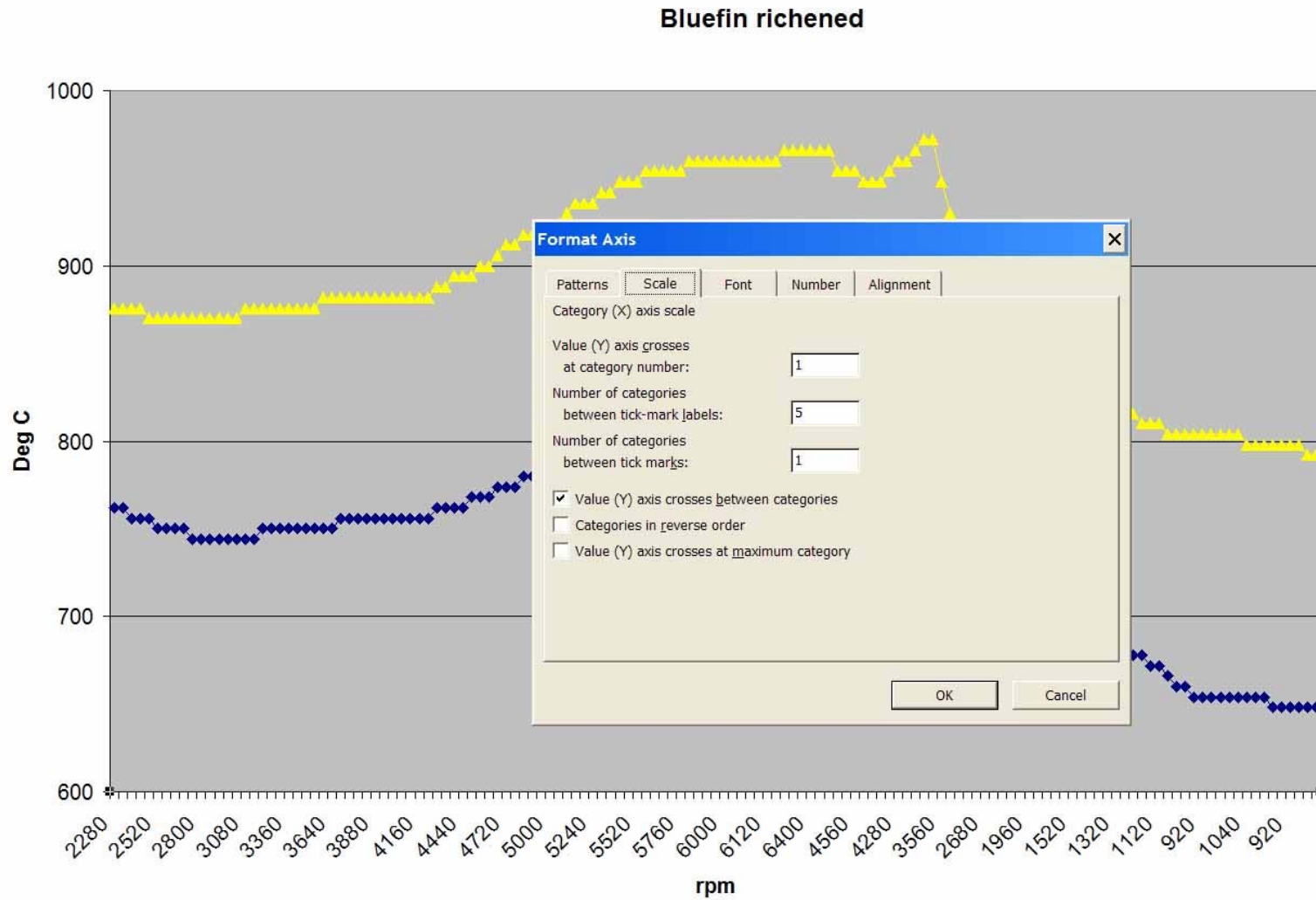
I find the most useful options here are to play with the tick marks and labels on the right side. Experiment to find what you like.



You can see the options I have used for this scale. Unless needed, cut out the crap. Here there's nothing between 0 and 600, so i got rid of it by starting the graph higher up. Again experiment to see what things do.



The scale for the X-axis works differently. Set more categories between tick mark labels to avoid your labels getting squashed into an unreadable mass.



There you have it!

Now how to get psi from millibar, etc.

Well here's the conversion figures you need listed below. You will need to create a function to multiple/add/subtract/etc to take the original figure and convert it to what you want. Create a new column of data and use that as your series instead. Help is useful if you've not done functions before. Quite simple when you know how.

bar to psi:

psi

= bar x 14.503861

= **millibar** x 0.014503861

Don't forget to subtract the baseline atmospheric pressure from your boost millibar figure or it will be wrong.

stoichiometric **Air-to-Fuel ratio (A/F)** for combustion of gasoline is 14.7:1
The lambda readout is a multiple of stoich.

Therefore:

1.00=14.7:1

0.90=13.23:1

0.85=12.5:1

0.80=11.76:1

0.75=11.03:1

0.70=10.29:1

etc.

Last tip - don't forget you can always undo.

Also copy and paste works well for duplicating functions. Excel is smart enough to apply the same function but with a different cell for the input.

Enjoy, and happy graphing!!

Funny

MY07 Reflex Silver GTI | DSG | Bi-Xenons | Leather | Park Sensors
[Bluefin Neuspeed Torque Arm Insert](#) H&R 22mm rear sway bar | Seat drawers
VAGCOM MicroCAN
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[DIY: Rear sway bar - H&R 22mm install + tips!](#)
[6spd DSG for dummies - Funny's unofficial guide](#)



Last edited by funny: 07-03-2008 at 10:42 AM. Reason: removed incorrect a/f comment



QUOTE

07-03-2008, 10:37 AM

#3

funny

DSG & VCDS guru & new Dad



Crap! Yet another typo in the thread title...

Funny

MY07 Reflex Silver GTI | DSG | Bi-Xenons | Leather | Park Sensors
[Bluefin Neuspeed Torque Arm Insert](#) H&R 22mm rear sway bar | Seat drawers
VAGCOM MicroCAN
Mainline dyno 156.9kW 329.9Nm atw