KISSsoft 03/2014 – Instruction 092

Modifying reports

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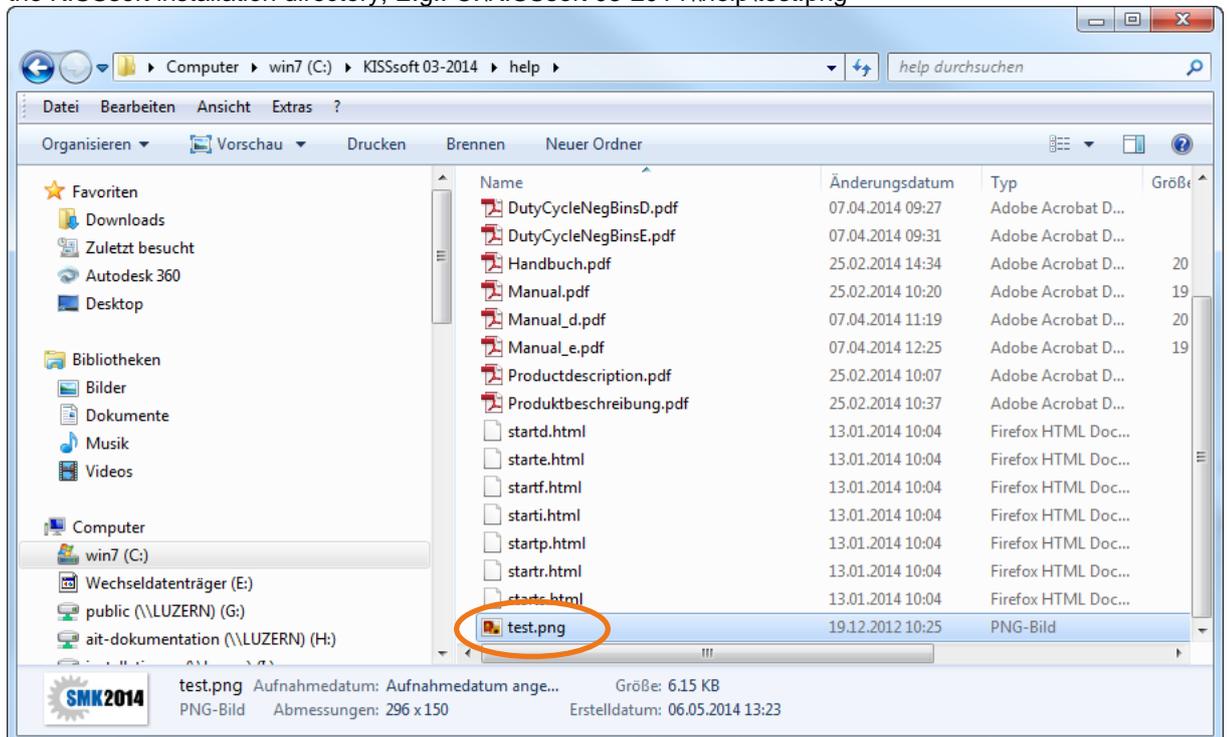Fax: +41 55 254 20 51
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SHARING KNOWLEDGE

Contents

1 Header, footer

1.1 Your logo in the report

You can add your own company logo to the report. For this, proceed as follows

1) Create your company logo in *.png format. We recommend a size of about 2 cm height. Save it in the KISSsoft installation directory, E.g.: C:\KISSsoft 03-2014\\help\test.png
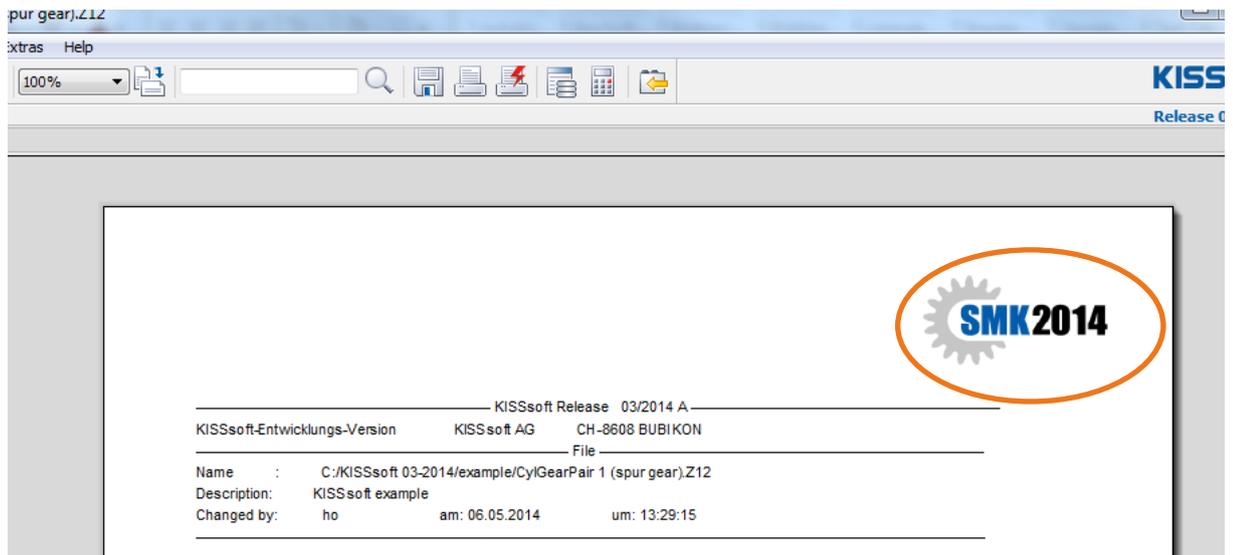

2) Go to the menu "Report/Settings". Go to tab "Header and footer".

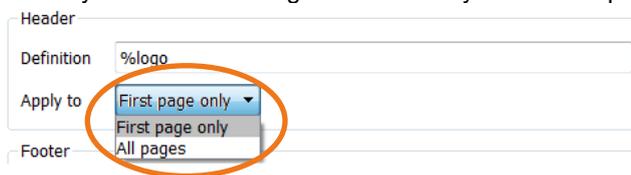3) In "Logo", use the button [...] and select the picture file, you will get:
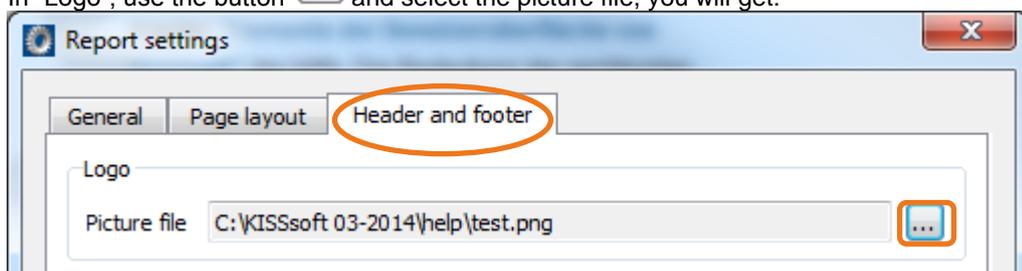
4) In the "Header" include the variable %logo so that the picture file is linked to the header:

5) Press "Ok". When you now generate a report, your logo will be shown on top of the page:

6) You may select that the logo is shown only on the first page or on all pages

1.2 Header and footer

The KISSsoft reports include a header and a footer. In both, you may combine text, variables and tabs. Variables include the date, time, number of pages, page number.

The variables are as follows

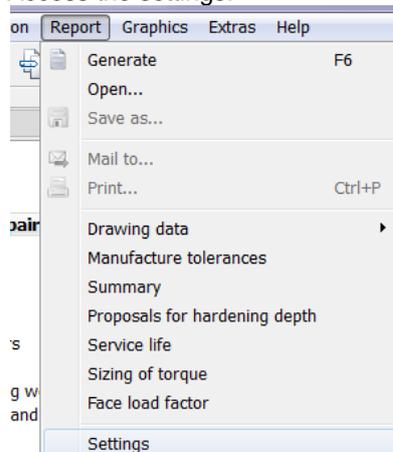|	
%logo	Picture file to be included on each page of the report
%date	Date when report was generated
%time	Time when report was generated
%pn	Number of current page
%pc	Total number of pages in report
%t	Add a tab break

Access the settings:

Figure 1.   Settings for reports

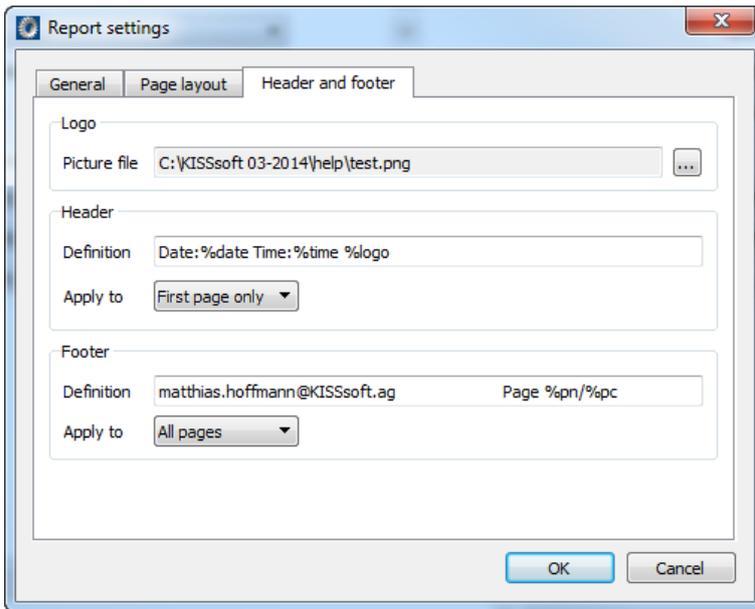Let us look at an example to make matters clear:

Figure 2.   Example header and footer setting

The picture file that will be used as a logo is saved in file C:\KISSsoft 03-2014\help\test.png
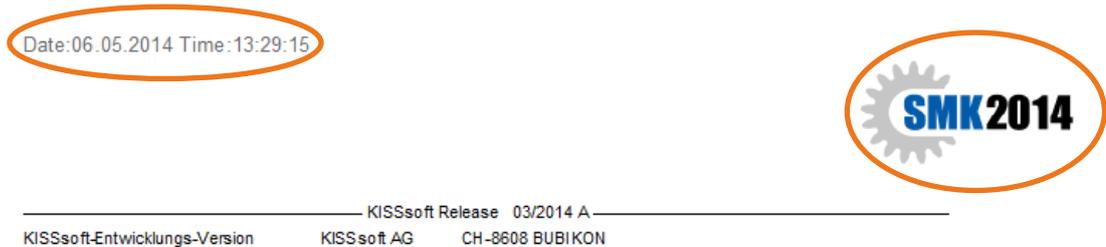In the header, the following text will be shown:

Figure 3.   Resulting header with above settings, on first page of report

Poisson's ratio	[ny]	0.300	0.300
Mean roughness, Ra, tooth flank (µm)	[RAH]	0.60	0.60
Mean roughness height, Rz, flank (µm)	[RZH]	4.80	4.80
Mean roughness height, Rz, root (µm)	[RZF]	20.00	20.00

Figure 4.   Resulting header in subsequent pages (no header)

In the footer, the following text results:

| Yield point (N/mm²) | [Rp] | 850.00 | 850.00 |
| Young's modulus (N/mm²) | [E] | 206000 | 206000 |

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Figure 5.   Resulting footer with above settings

2 Adding results to the result window

2.1 Note

Note that the below steps need to be done for each calculation module separately.

2.2 Generating a file where the additional results are listed as a template

To get own results in the results window, you need to create a new file in the installation directory, in this folder:

C:\KISSsoft 03-2014\ext\rpt

This file should be a text file with name "Modulename + result.RPT", e.g. Z012result.RPT for gear pair calculation (the "Modulename" is Z012 for gear pair calculation. E.g. like this:
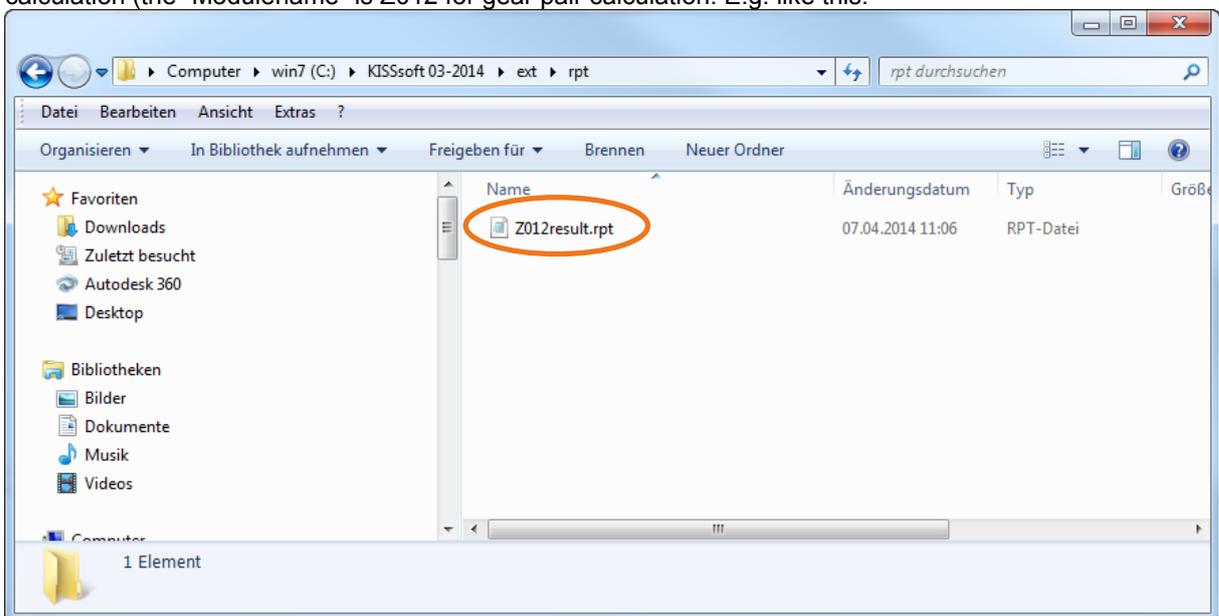

Figure 6.   Generating a file for module „Z012" (gear pair module)

Whatever we add in this file will be shown below the normal results. Just for example, if you add:
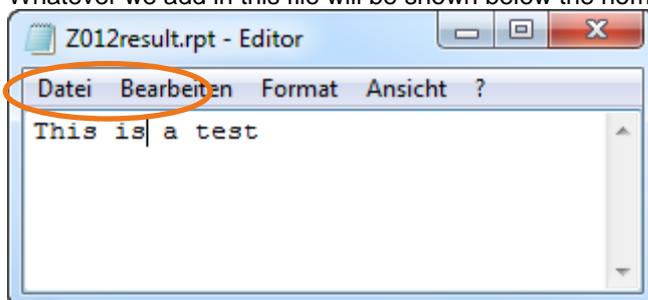

Figure 7.   Example text in file that will be shown additionally in the results window
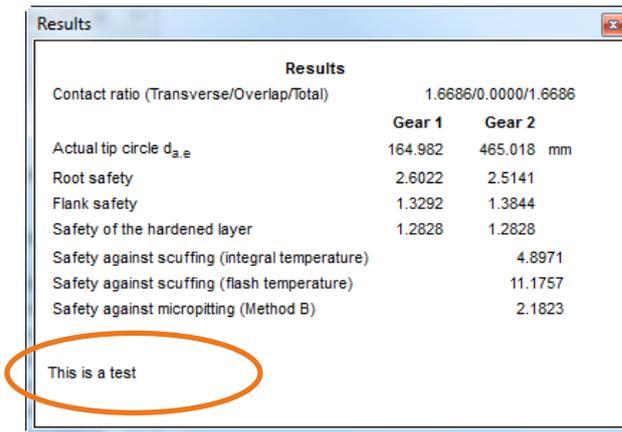
Which will give

Figure 8. This is a test to show the basic mechanism

2.3 Adding calculation results in this template file

In this file, we now define the results that should be shown in addition to the default results. Let us e.g. add normal tooth thickness. For this, we need to know the syntax and the name of the KISSsoft variable where this value is stored. We can find out this in the general report. The general reports we can find in folder …\KISSsoft 03-2014\rpt. The report including the tooth thickness is file Z010ToothThicknesse.rpt.

There, you can find out the variable name for chordal tooth thickness, 'sn (for gear 1):

```
Tooth thickness (chordal) in pitch diameter (mm) ['sn]        %10.3f              {ZR[0].KM.smn.nul}
                                 (mm)     [ sn.e/i]     %5.3f / %5.3f     {ZR[0].KM.smn.E} {ZR[0].KM.smn.i}
9Reference chordal height from da.m (mm)       [ha]         %10.3f             {ZR[0].KM.ha}
9Tooth thickness (Arc) (mm)              [sn]         %10.3f             {ZR[0].BPmm.sn}
9                       (mm)       [sn.e/i]     %5.3f / %5.3f     {ZR[0].BPmm.sn+ZR[0].As.E} {ZR[0].BPmm.sn+ZR[0].As.i}
1END;
```

Figure 9. Report template for tooth thickness report, showing the name of the variable in which the tooth thickness is stored.

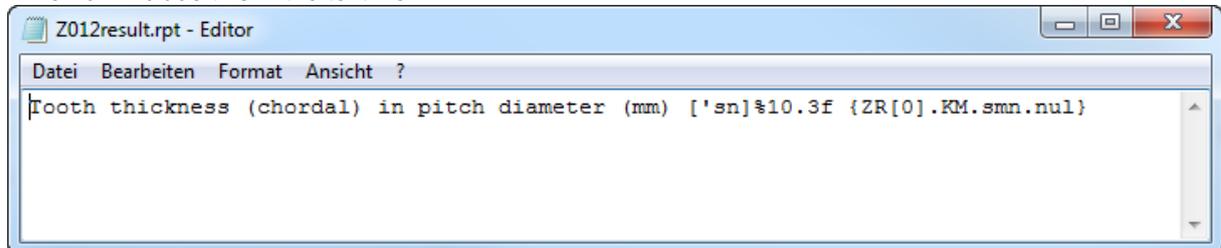If we now include this in the text file:

Figure 10. Adding the text, variable name and format of the number in the file. It is best to simply copy-paste the data.

We now get in results window:

Results

	Gear 1	Gear 2	
Contact ratio (Transverse/Overlap/Total)		1.6686/0.0000/1.6686	
Actual tip circle $d_{a.e}$	164.982	465.018	mm
Root safety	2.6022	2.5141	
Flank safety	1.3292	1.3844	
Safety of the hardened layer	1.2828	1.2828	
Safety against scuffing (integral temperature)		4.8971	
Safety against scuffing (flash temperature)		11.1757	
Safety against micropitting (Method B)		2.1823	
Tooth thickness (chordal) in pitch diameter (mm)	['sn]	10.502	

Figure 11. Results window with own parameters

3 Adding result graphics to your report

3.1 Working with the graphics list

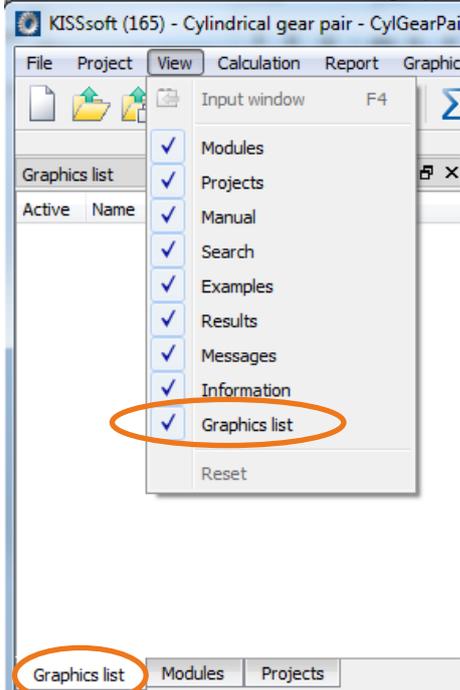Go to the menu "View" to add the graphic list to your user interface:

Figure 12.   Adding the graphic list

To add a graphic to the graphics list, press the button [icon] in the respective graphics:

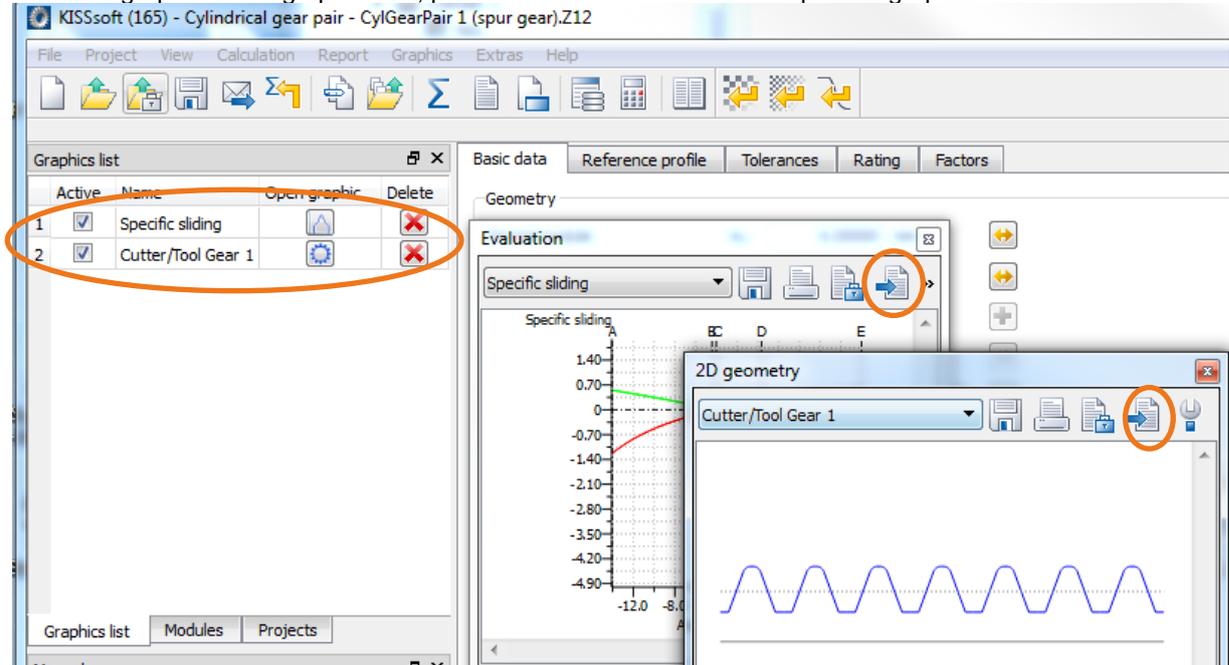Figure 13.   Adding various graphics to the graphics list

Note the following functions in the list

"Active"   The graphic will be copied into the report

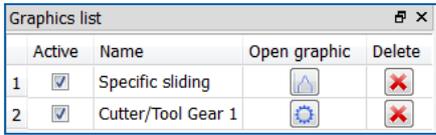|			
"Name"		Shows which graphic is used	
"Open graphic"		Press this button to open the respective graphic	
"Delete"		Remove the graphic from the list	

Figure 14.   Options in the graphics list

3.2 Report with graphics
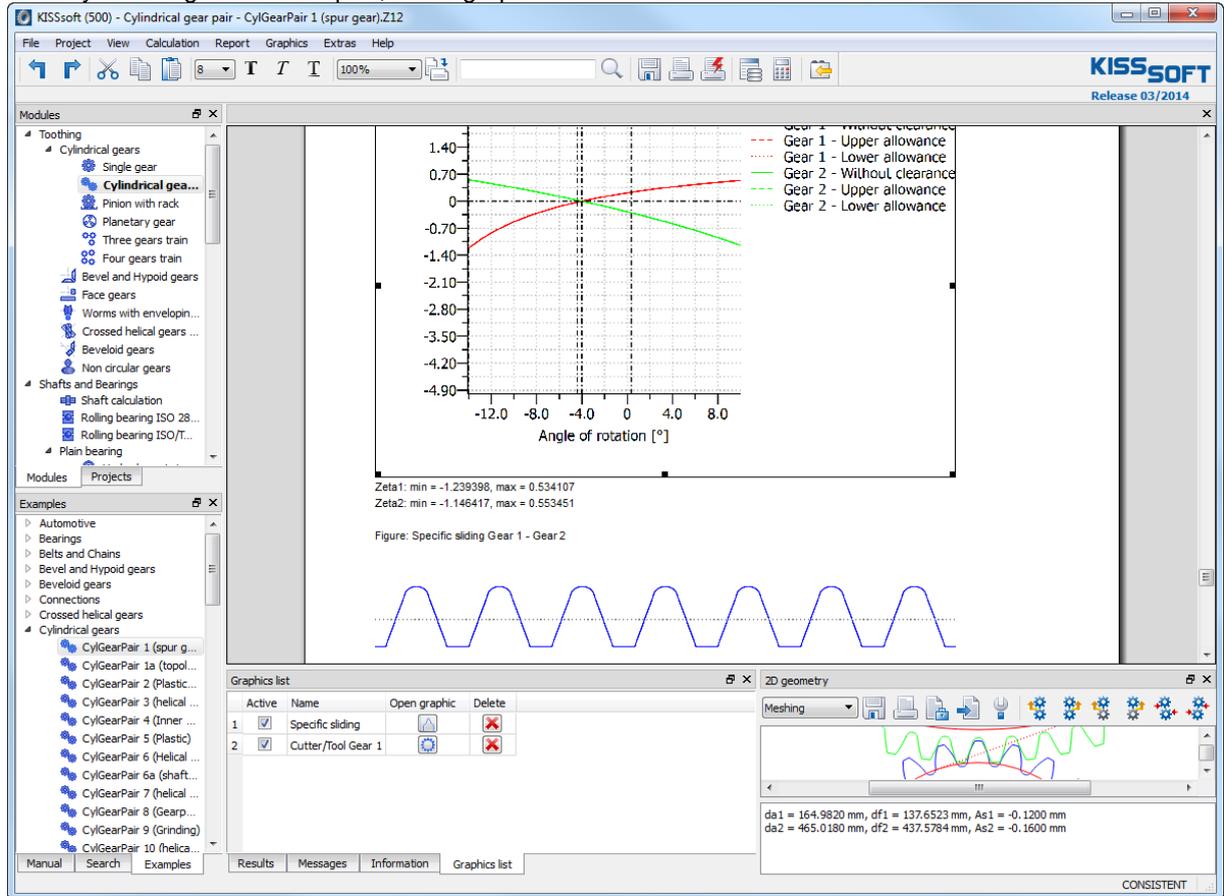
When you now generate a report, these graphics will be included:

Figure 15.   Report with graphics