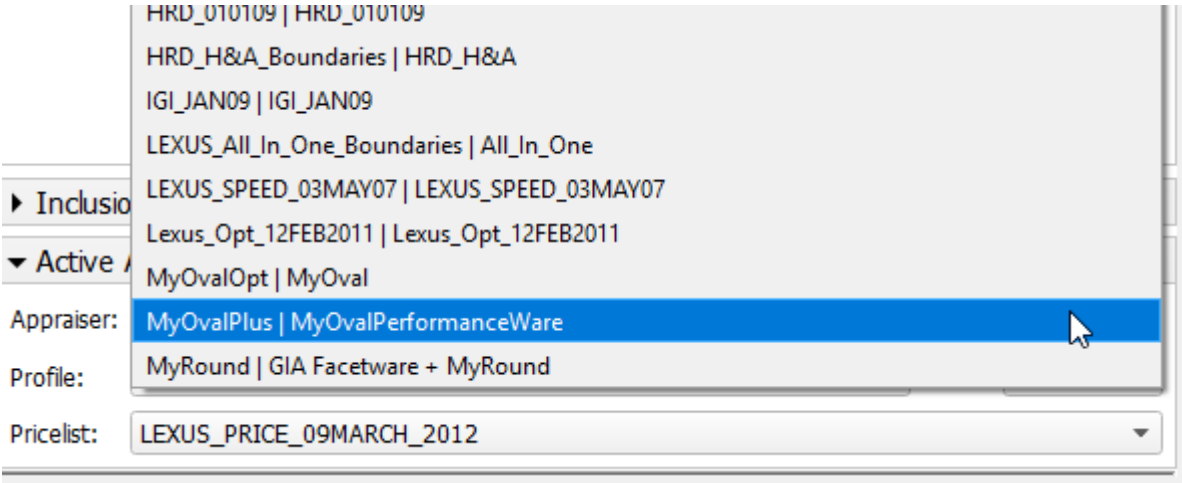


# 2018-02-08 - HPOxygen Server 4.0.1

- [Smart Recut - Oval Grid Appraiser implementation](#)
- [Reports](#)
- [GUI](#)
- [Galahad1](#)

## Smart Recut - Oval Grid Appraiser implementation

There is new appraiser "**MyOvalPlus|MyOvalPerformanceWare**" is implemented for Recut and SmartRecut optimization. The new appraiser can be selected in **Recut** mode, in **Active Appraiser** tab under **Appraiser** filed:



Old appraiser MyOvalOpt|MyOval also available in list of appraisers and new one MyOvalPlus|MyOvalPerformanceWare is added.

The appraiser allows to get Ovals with perfect optical performance on the base of "point" or Grid appraiser inside. **Gird Grade** is shown in **Standard report** for solution if MyOvalPlus|MyOvalPerformanceWare is selected:

Cutting type	Oval	Model	18
Spread	-0.06 ct, -3.63 %	Scale weight, ct	
Extra Facet Girdle / Nat	No	Corrected mass, ct	1.58, 1.5880
Cut appraiser	MyOvalPerformanceWare	Cut grade	GD
Symmetry appraiser	MyOvalPerformanceWare	Grid grade	GD
Model building info		Interval cut grade	EX
		Sym grade	EX
		Final grade	GD

Sample of SmartRecut optimization by new appraiser MyOvalPlus|MyOvalPerformanceWare on the base of Demo sample Oval\_blocked\_001 (menu File/Demo/Oval\_blocked\_001) - the table show difference between old appraiser MyOvalOpt|MyOval and its solutions and new appraiser MyOvalPlus|MyOvalPerformanceWare and its solutions:

Solutions of MyOvalOpt MyOval are selected	Solutions of MyOvalPlus MyOvalPeroramnceWare are selected
--	---

Allocation solutions

Plans & Scans

★ ☆ ★ ☆ ★ ☆ ★ ☆

Compare

Standard Report

Settings

Print...

Quick Print

#

Price

Cutting

Mass

Yield

Ratio

Sym-O

Gr

Cut

Sym

Imported model

2.2307

100.00%

+3.72

27

9234\$ Oval

1.6090

SR 72.18%

VS1 H +7.04

EX

EX

25

9234\$ Oval

1.6087

SR 72.18%

VS1 H +7.04

EX

EX

24

9234\$ Oval

1.6085

SR 72.18%

VS1 H +7.33

EX

EX

26

9177\$ Oval

1.6066

SR 71.73%

VS1 H +7.36

EX

EX

22

9177\$ Oval

1.6056

SR 71.73%

VS1 H +7.34

EX

EX

23

9177\$ Oval

1.6054

SR 71.73%

VS1 H +7.81

EX

EX

21

9177\$ Oval

1.6042

SR 71.73%

VS1 H +8.16

EX

EX

28

9177\$ Oval

1.5986

SR 71.73%

VS1 H +8.27

EX

EX

17

8106\$ Oval

1.5932

SR 71.28%

VS1 H +7.09

VG

VG

16

8106\$ Oval

1.5929

SR 71.28%

VS1 H +7.08

VG

VG

14

9120\$ Oval

1.5925

SR 71.28%

VS1 H +7.28

EX

EX

19

9120\$ Oval

1.5903

SR 71.28%

VS1 H +7.07

EX

EX

15

9120\$ Oval

1.5894

SR 71.28%

VS1 H +7.93

EX

EX

18

9062\$ Oval

1.5880

SR 70.83%

VS1 H +8.28

EX

EX

13

9062\$ Oval

1.5819

SR 70.83%

VS1 H +8.35

EX

EX

10

9930\$ Oval\_WBT\_C32\_G64\_P...

1.5337

68.59%

VS1 H +8.16

EX

EX

12

4476\$ Oval\_WBT\_C32\_G64\_P...

1.4867

66.35%

VS1 H +9.10

EX

EX

20

6593\$ Oval

1.4867

SR 66.35%

VS1 H +9.09

EX

EX

13

Diamond Info

Cutting: Oval

Model Mass: 1.5819 ct

Price: 9 062 \$

Clarity: VS1

Discount: -10.00 %

DZ Color: H

PPC: 5736 \$/ct

Grade: EX

Inclusions

Active Appraiser and Pricelist

Appraiser: MyOvaPlus | MyOvaPerformanceWare

Profile: Default

Show Editor

Pricelist: LEXUS\_PRICE\_09MARCH\_2012

Standard Report

Settings

Print...

Quick Print

#

Price

Cutting

Mass

Yield

Ratio

Sym-O

Gr

Cut

Sym

Imported model

2.2307

100.00%

+3.72

27

9234\$ Oval

1.6090

SR 72.18%

VS1 H +7.04

EX

EX

25

9234\$ Oval

1.6087

SR 72.18%

VS1 H +7.04

EX

EX

24

9234\$ Oval

1.6085

SR 72.18%

VS1 H +7.33

EX

EX

26

9177\$ Oval

1.6066

SR 71.73%

VS1 H +7.36

EX

EX

22

9177\$ Oval

1.6056

SR 71.73%

VS1 H +7.34

EX

EX

23

9177\$ Oval

1.6054

SR 71.73%

VS1 H +7.81

EX

EX

21

9177\$ Oval

1.6042

SR 71.73%

VS1 H +8.16

EX

EX

28

9177\$ Oval

1.5986

SR 71.73%

VS1 H +8.27

EX

EX

17

8106\$ Oval

1.5932

SR 71.28%

VS1 H +7.09

VG

VG

16

8106\$ Oval

1.5929

SR 71.28%

VS1 H +7.08

VG

VG

14

9120\$ Oval

1.5925

SR 71.28%

VS1 H +7.28

EX

EX

19

9120\$ Oval

1.5903

SR 71.28%

VS1 H +7.07

EX

EX

15

9120\$ Oval

1.5894

SR 71.28%

VS1 H +7.93

EX

EX

18

9062\$ Oval

1.5880

SR 70.83%

VS1 H +8.28

EX

EX

13

9062\$ Oval

1.5819

SR 70.83%

VS1 H +8.35

EX

EX

10

9930\$ Oval\_WBT\_C32\_G64\_P...

1.5337

68.59%

VS1 H +8.16

EX

EX

12

4476\$ Oval\_WBT\_C32\_G64\_P...

1.4867

66.35%

VS1 H +9.10

EX

EX

20

6593\$ Oval

1.4867

SR 66.35%

VS1 H +9.09

EX

EX

28

Diamond Info

Cutting: Oval

Model Mass: 1.5986 ct

Price: 9 177 \$

Clarity: VS1

Discount: -10.00 %

DZ Color: H

PPC: 5736 \$/ct

Grade: EX

Inclusions

Active Appraiser and Pricelist

Appraiser: MyOvaPlus | MyOvaPerformanceWare

Profile: Default

Show Editor

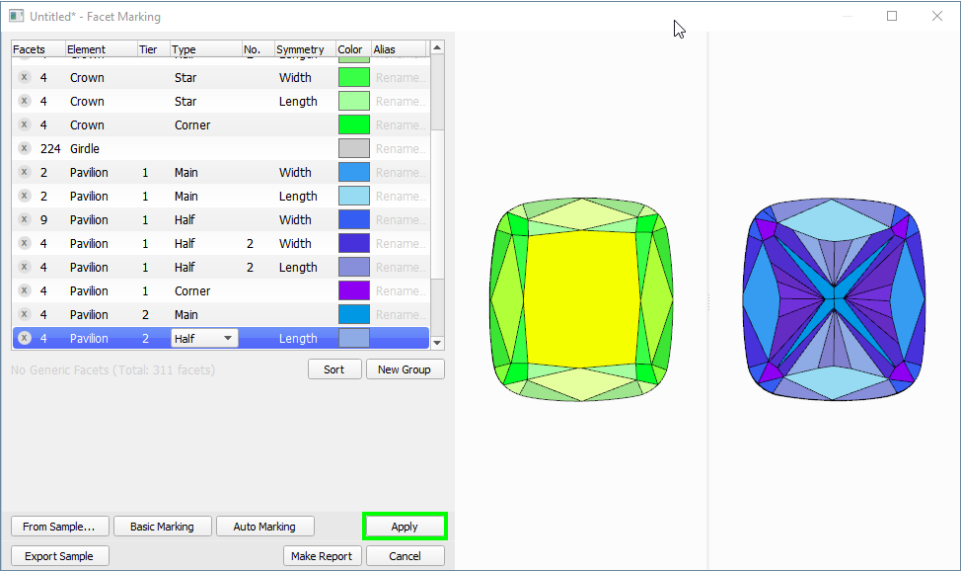
Pricelist: LEXUS\_PRICE\_09MARCH\_2012

## Reports

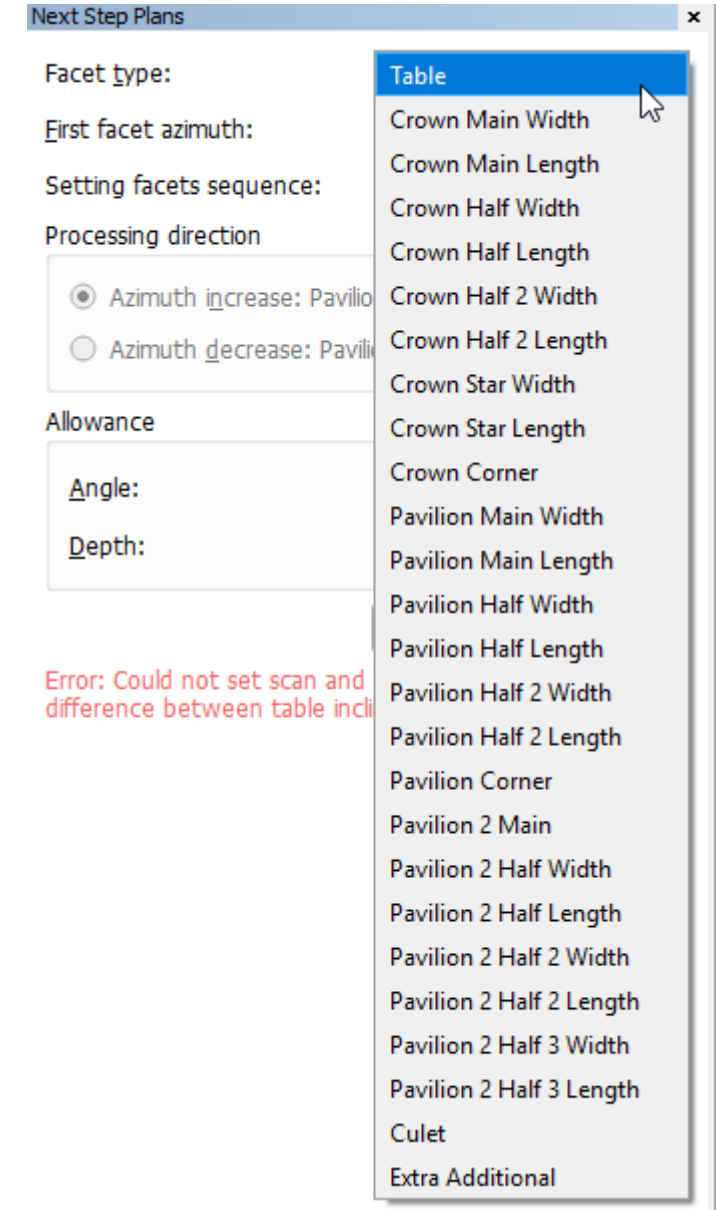
- Custom HTML Report** is implemented and available instead of previous MS Word Report. This transfer has allowed to decrease time of report generation in several times. Currently time of Custom HTML Report generation is less than 5 sec. To generate report it is required to select Custom Report... on the right in Report tab, check Facet Marking in opened window and press "Make report" button:

To edit template of **Custom HTML Report** please find and edit bookmarks of file **%ProgramData%\OctoNus Software\CustomDefinedReportTemplatesand\Custom\_Report.html**.

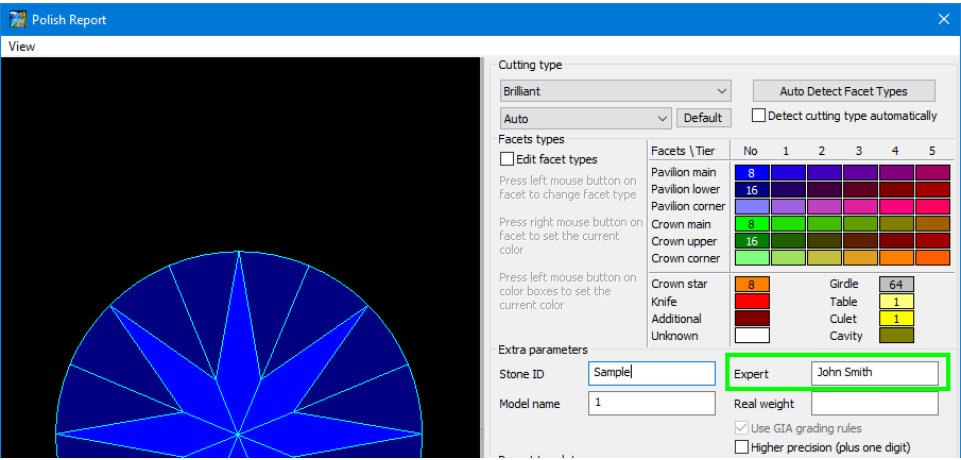
- Command and button **Apply** in **Facet Marking** panel (click on **Custom report...** in **Reports** tab on the right in main scene) allows to apply changes in facet marking made by operator to further actions in other modes of program.



For example, this action could be performed to transfer facet marking of current cutting to *Galahad1* mode to panel *Next Step Plans*:



3. An expert name, indicated in field *Expert* in panel *Polish Report*, is saved after restart of program.



GUI

Improved interface of **Plans&Scans** tab of *Allocation solutions* panel, in *Recut* mode.

Allocation solutions

Plans & Scans

★

☆

🚩

🚩

🚩

🚩

🚩

✖

Compare

Standard Report

#

Price ▲

Cutting

Mass

Yield

Clarity

Sym-O

Gr

Cut

Sym

Imported model

47.1325

100.00%

7

451937\$ Brilliant

9.7609

SR

20.71%

VVS1 H +1.23

EX

EX

EX

9

441287\$ Brilliant

9.5370

SR

20.22%

VVS1 H +5.83

EX

EX

EX

6

★ 440361\$ Brilliant

9.5146

SR

20.18%

VVS1 H +6.20

EX

EX

EX

8

439898\$ Brilliant

9.5084

SR

20.16%

VVS1 H +6.50

EX

EX

EX

4

🚩 439434\$ Brilliant

9.4971

SR

20.13%

VVS1 H +6.88

EX

EX

EX

2

438971\$ Brilliant

9.4873

SR

20.11%

VVS1 H +5.65

EX

EX

EX

5

438045\$ Brilliant

9.4586

SR

20.07%

VVS1 H +7.13

EX

EX

EX

3

☆ 434804\$ Brilliant

9.3983

SR

19.92%

VVS1 H +7.33

EX

EX

EX

1

431563\$ Brilliant

9.3276

19.77%

VVS1 H +6.74

EX

EX

EX

10

☆ 224181\$ Oval

10.3088

21.87%

VVS1 H +8.91

14

🚩 200929\$ Emerald.P32C24

10.0265

21.26%

VVS1 H +9.19

15

148428\$ Pear

9.3054

19.73%

VVS1 H +8.90

16

🚩 141007\$ Princess.P44C44

8.9239

18.93%

VVS1 H +9.07

27

130216\$ Radiant

9.8353

20.86%

VVS1 H +8.67

47

121168\$ Heart

9.4907

20.13%

VVS1 H +9.14

52

🚩 117553\$ Cushion.P24C32B

9.5217

SZ

20.20%

VVS1 H +11.11

51

117553\$ Cushion.P24C32B

9.5213

SZ

20.20%

VVS1 H +11.12

54

117553\$ Cushion.P24C32B

9.5203

SZ

20.20%

VVS1 H +11.08

53

117553\$ Cushion.P24C32B

9.5198

SZ

20.20%

VVS1 H +11.09

49

117429\$ Cushion.P24C32B

9.5174

SZ

20.18%

VVS1 H +11.10

50

117429\$ Cushion.P24C32B

9.5144

SZ

20.18%

VVS1 H +11.07

48

117306\$ Cushion.P24C32B

9.5032

20.16%

VVS1 H +11.22

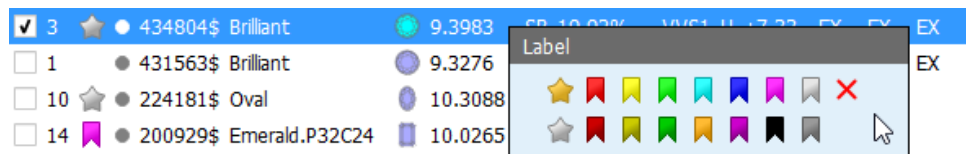
1

2

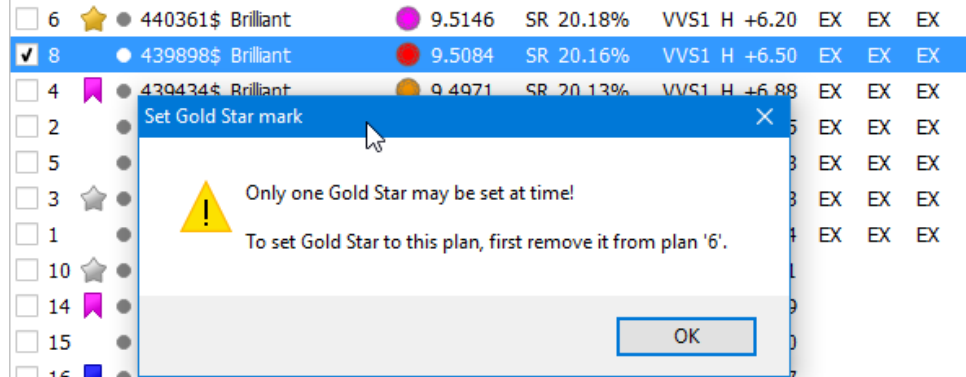
3

1. Column#1 (see picture above) is assigned for mark of solution in the list by specific bookmark: it could be either:

a. Usual bookmark with colors in the top of panel or from color by right click on solution:

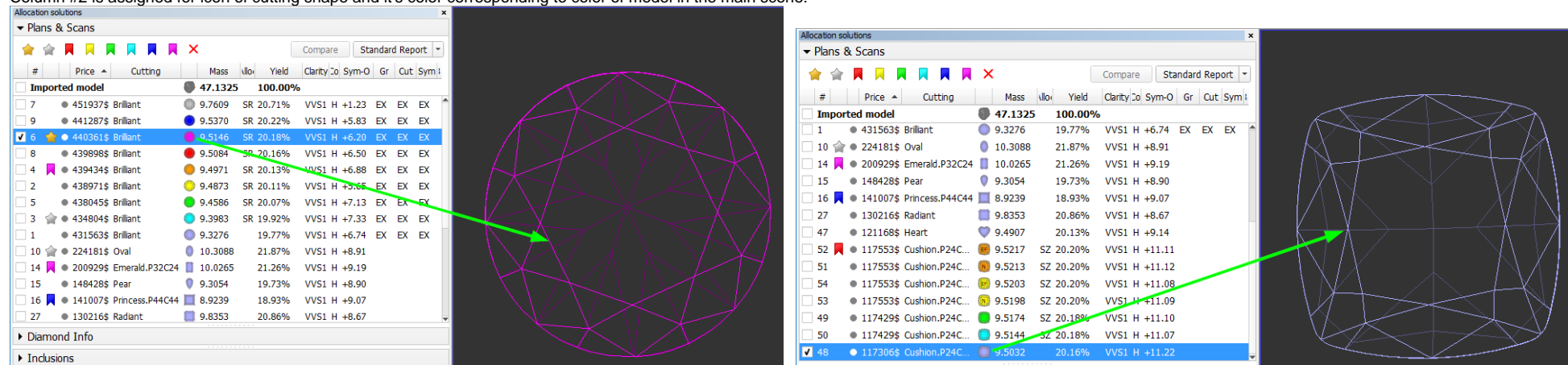


b. "Gold" or "Silver" Star to mark special best solution and next after best (alternative). Operator can use the same bookmark or silver star for different solutions but only one solution could be marked by "gold" star. If operator try to mark another solution by gold star then he will get the message:

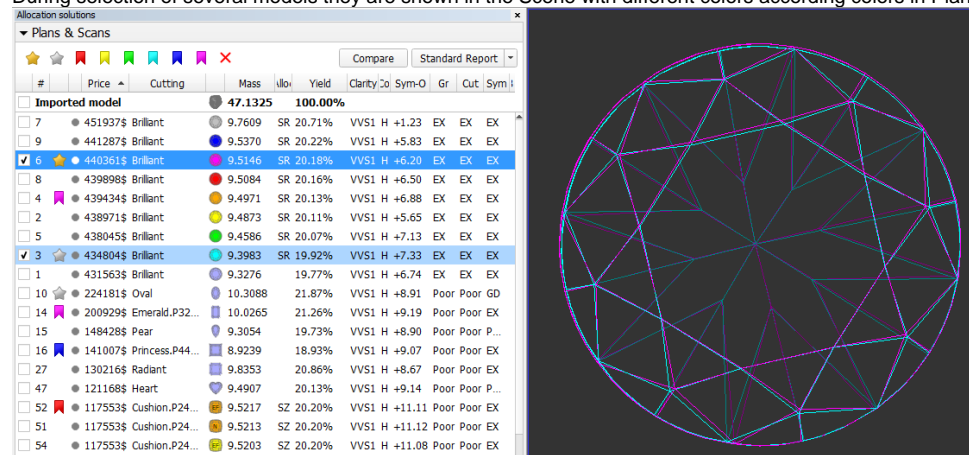


c. To remove mark from solution please use red cross in the top:

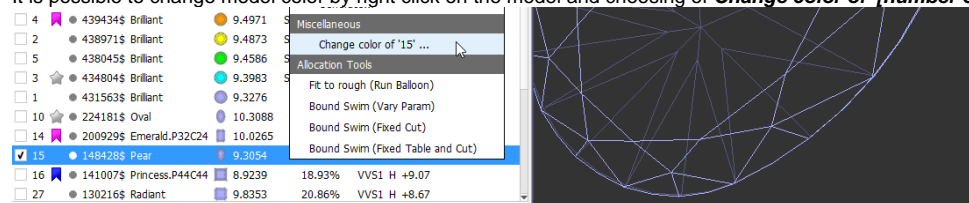
2. Column #2 is assigned for icon of cutting shape and it's color corresponding to color of model in the main scene:



During selection of several models they are shown in the Scene with different colors according colors in Plans&Scans:



It is possible to change model color by right click on the model and choosing of **Change color of [number of solution]** in section "Miscellaneous"



Color of Recut solution or imported solution is violet by default.

Icon of cutting with "EF" or "N" letters means ExtraFacet or Natural SmarZoom solution (details are here [2017-11-17 - HPOxygen Server 3.24.3#2017-11-17-HPOxygenServer3.24.3-Diamondallocation](#)). Smart Recut or Smart Zoom solutions has initial color according preset color.

Presets

CutSymmetryOther

1.UltraSymmetry2.HighOpticalSymmetry3.MediumOpticalSymmetry4.NormalOpticalSymmetry5.Standard6.ExtendedLimits7.LowOpticalSymmetry8.MaxMass

Hide Presets

Color could be changed later by operator by right click, Change color of...

3. Column#3 is assigned for text description of solution. There are possible options: SR (Smart Recut), SZ (Smart Zoom) or empty box (Recut, Rough, Imported solutions, Scans). During pointing of mouse cursor on text tool-tip is displayed with name of preset:

6	★	●	440361\$ Brilliant	●	9.5146	SR 20.18%	VVS1 H +6.20	EX
8		●	439898\$ Brilliant	●	9.5084	SmartRecut   6. ExtendedLimits		EX
4	🚩	●	439434\$ Brilliant	●	9.4971	SR 20.13%	VVS1 H +6.88	EX

Galahad1

Facets sequence in the panel **Next Step Plans** is changed to **Consecutive** by default (before it was Crosswise).

Next Step Plans

Facet type:

Crown Main Bezel

First facet azimuth:

1.0°

Setting facets sequence:

Consecutive

Processing direction

☒ Azimuth increase: Pavilion (CCW), Crown (CW)

☐ Azimuth decrease: Pavilion (CW), Crown (CCW)

Allowance

Angle:

0.00°

Depth:

0µm

Generate Next Step Plans

Value of field **Setting facets sequence** and checked box **Processing direction** is saved after restart of program.