

SASIG PDQ Criteria to CADIQ Diagnostic Map

| | | SASIG PDQ | | CADIQ 6.0 | | | | |
|------------|---------|--|--------------------------------|------------------------------------|-------------------------------|---------------------------------|---------------------------------|--|
| | | ID | Criteria | CADIQ Quality Diagnostics | | CADIQ Compare Diagnostics | | |
| Curve | G-CU-LG | Large Segment Gap | Large Segment Gap | | | | | |
| | G-CU-NT | Non-Tangent Segments | Non-Tangent Segments | | | | | |
| | G-CU-TI | Tiny Curve or Segment | Tiny Curve | Tiny Segment | | | | |
| | G-CU-HD | High-Degree Curve | High-Degree Curve | | | | | |
| | G-CU-CR | Curve With a Small Rad of Curvature | High-Curvature Curve | | | | | |
| Surface | G-SU-LG | Large Patch Gap | Large Patch Gap | | | | | |
| | G-SU-TI | Tiny Surface or Patch | Tiny Surface | Tiny Patch | | | | |
| | G-SU-HD | High-Degree Surface | High-Degree Surface | | | | | |
| | G-SU-FG | Fragmented Surface | Fragmented Surface | | | | | |
| | G-SU-CR | Surface With a Small Rad of Curvature | High-Curvature Surface | | | | | |
| Edge | G-ED-TI | Tiny Edge | Tiny Edge | | | | | |
| | G-ED-FG | Fragmented Edge | Fragmented Edge | | | | | |
| | G-ED-CL | Closed Edge | Closed Edge | | | | | |
| | G-ED-IO | Inconsistent Edge on Curve | Inconsistent Edge on Curve | | | | | |
| | | | Degenerate Edge | | Shifted Edges | | Deviant Edges | |
| Edge Loop | G-LO-LG | Large Edge Gap | Large Edge Gap | | | | | |
| | G-LO-IS | Self-Intersecting Loop | Self-Intersecting Loop | | | | | |
| | G-LO-SA | Sharp Edge Angle | Sharp Edge Angle | | | | | |
| | G-LO-IT | Inconsistent Edge in Loop | Inconsistent Edge in Loop | | | | | |
| | | | Non-Tangent Edges | | | | | |
| Face | G-FA-EG | Large Edge Face Gap | Large Edge Face Gap | | | | | |
| | G-FA-VG | Large Vertex Gap | Large Vertex Edge Gap | Large Vertex Face Gap | | | | |
| | G-FA-TI | Tiny Face | Tiny Face | | | | | |
| | G-FA-NA | Narrow Face | Narrow Face | | | | | |
| | G-FA-RN | Narrow Region | Narrow Region | | | | | |
| | G-FA-IS | Intersecting Loops | Intersecting Loops | | | | | |
| | G-FA-EM | Embedded Faces | Embedded Faces | | | | | |
| | G-FA-CL | Closed Face | Closed Face | | | | | |
| | | | Degenerate Face | | Shifted Faces | | Deviant Faces | |
| | | | Large Round Faces | Tiny Round Faces | Different Face Area | | Different Face Color | |
| | | Tiny Hole Faces | Non-Standard Hole Faces | Unmatched Face | | Unmatched External Face | | |
| | | Untessellated Face | | Split Faces | | Merged Faces | | |
| | | | | Collapsed Face | | Inserted Face | | |
| | | | | Complex Face Match | | | | |
| | | | | Face ValProp Area | | Face ValProp Points | | |
| Shell | G-SH-LG | Large Face Gap | Large Face Gap | | | | | |
| | G-SH-NT | Non-Tangent Faces | Non-Tangent Faces | | | | | |
| | G-SH-SA | Sharp Face Angle | Sharp Face Angle | | | | | |
| | G-SH-FR | Free Edge | Free Edge | | | | | |
| | G-SH-NM | Over-Used Edge | Over-Used Edge | | | | | |
| | G-SH-OU | Over-Used Vertex | Over-Used Vertex | | | | | |
| | | | Embedded Shells | | Unsewn Shell | | Sewn Shell | |
| | | | Narrow Space | Narrow Volume | Different Shell Area | | | |
| | | Narrow Step | | Unmatched Shell | | Unmatched External Shell | | |
| | | Over-Used Face | | Shell ValProp Area | | | | |
| | | Sharp Free Edge Angle | | | | | | |
| Solid | G-SO-TI | Tiny Solid | Tiny Solid | | | | | |
| | G-SO-EM | Embedded Solids | Embedded Solids | | | | | |
| | G-SO-VO | Solid Void | Solid Void | | | | | |
| | | | Degenerate Solid | | Unsewn Solid | | Sewn Solid | |
| | | | Thin Solid Volume | Thick Solid Volume | Different Solid Area | | | |
| | | | Narrow Solid Space | | Different Solid Volume | | Different Solid Location | |
| Part Model | | | Feature Status | | Different Model Area | | | |
| | | | Feature Faces | Features Edges | Different Model Volume | | Different Model Location | |
| | | | Hidden Entity | | Different Entity Count | | Complex Entity Match | |
| | | | Empty Model | | | | | |
| | | | Multi-Solid Model | Narrow Space Between Solids | Model ValProp Area | | | |
| | | | Non-Solid Entity | | Model ValProp Volume | | Model ValProp Location | |
| Assembly | | | Duplicate Assemblies | Duplicate Parts | | | | |
| | | | Empty Assembly | Empty Part | | | | |
| | | | Missing Component | | | | | |
| | | | | | | | | |
| | | Supported SASIG Criteria Count | SASIG Quality Diagnostics | Unique Quality Diagnostics | Unique Compare Diagnostics | | | |
| | | 35 | 38 | 31 | 39 | | | |
| | | Bold indicates a diagnostic that is unique to CADIQ | | | | Total CADIQ Diagnostics: | 108 | |
| | | ValProp diagnostics add "native validation properties" to a STEP file | | | | | | |
| | | Additional SASIG criteria will be supported based on CADIQ customer requirements | | | | | | |