

SASIG PDQ Criteria to CADIQ Diagnostic Map

		SASIG PDQ		CADIQ 5.1			
		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		
			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	
					Unmatched Solid	Unmatched External Solid	
				Solid ValProp Area			
				Solid ValProp Volume	Solid ValProp Location		
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		Model ValProp Area		
				Model ValProp Volume	Model ValProp Location		
		Supported SASIG Criteria Count	SASIG Quality Diagnostics	Unique Quality Diagnostics	Unique Compare Diagnostics		
		35	38	25	38		
		Bold indicates a diagnostic that is unique to CADIQ			Total CADIQ Diagnostics:	101	
		ValProp diagnostics add "native validation properties" to a STEP file					
		Additional SASIG criteria will be supported based on CADIQ customer requirements					