

Pipeline Anomalies Matrix

	Axial Crack				Circumferential Crack		Metal Loss				Geometry	Mapping
	EVO UC	EVO UCx	EVO Eclipse UCx	PROTON	EVO UCC	EVO UCcx	EVO UMP	EVO UMP+	EVO UMx	ART Scan	EVO Geometry	EVO Mapping (IMU)
Operational	Liquid medium	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Gas medium										✓	
	Natural Gas Liquids (NGLs)	✓	✓	✓	+	✓	✓				✓	✓
	Multi diameter										✓	
	Dual diameter	+	+		+	+	+	+	+	+	+	+
	Bidirectional				+		+	+			✓	
	Thick wall pipe > 12,7 mm (> 0.5 in)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Low flow/ low pressure	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	CRA clad pipe	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Waxy lines inspection	+	+	+	+	+	+	+	+	✓	+	+
Cracks	Axial crack	■	◆	◆	◆							
	Circumferential crack					■	◆					
	Cracks in dents		◆ *	◆ *							◆ **	
	Girth weld crack					■	◆					
	Tilted crack	●	▲	◆	◆							
	Skewed crack	●	▲	◆	◆							
	Hydrogen Induced Cracking (HIC)	■	▲	◆	◆	■	◆					
	Lack of fusion	▲	◆	◆	◆	■		▲				
	Longitudinal weld crack	■	▲	◆	◆							
	Stress Corrosion Cracking (SCC)	▲	◆	◆	◆	▲	◆					
Corrosion and Metal Loss	Stacked cracks	■	▲	◆	◆	■	▲					
	General corrosion					■	▲	◆				
	External					■	▲	◆				
	Internal					■	▲	◆				
	Pinholes					■	▲	◆				
	Complex corrosion					■	▲	◆				
	Highly corroded					■	▲	◆				
	Narrow axially oriented					■		■	◆			
	Circumferentially oriented					■		▲	◆			
	Wall thinning/erosion					■		◆	◆			●
	Corrosion cluster					■		▲	◆			
	Girth weld anomaly					■		▲	◆			
	Gouging					■		▲	◆			
	Microbacterially Induced Corrosion (MIC)					■		▲	◆			
Geometry	Pilferage					■		■	■			
	Pitting					■		▲	◆			
	Lamination	●	●	●	●		◆	◆	◆			
	Seam weld anomaly					■		◆	◆			
	Spiral weld anomaly					■		▲	◆			
	Local wall thickness					◆		◆	◆			■
	Bending											◆
	Buckle											◆
	Dent						●	●	●			◆
	Dent with metal loss						■ *	▲ *	◆ *			◆ ***

* Requires the use of geometry technology

** Requires the use of a suitable crack technology

*** Requires the use of a suitable metal loss technology