

# STRIKE ONE, STRIKE TWO... HOW MANY STRIKES UNTIL YOU'RE OUT?

► DIFFERENTIATE MECHANICAL DAMAGE:

Being able to characterize true mechanical damage defects will help you take the best action.



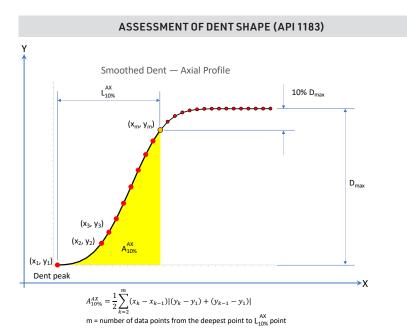
# MECHANICAL DAMAGE ASSESSMENT

Third-party strikes are one of the leading causes of pipeline damage. Knowing you have mechanical damage without understanding whether the result is dents with corrosion or, more seriously, dents with gouging – means you might not apply the right mitigative approach. And that's like striking out.

## **APPROACH**

# Dent and gouge assessment

Using the multiple dataset in-line inspection (ILI) platform and our proprietary assessment methodology, we can detect, identify and size dent and gouge combinations, then discriminate between higher-risk and less onerous defects. The result is a severity ranking with options to extend to a higher level by applying industry-accepted approaches to assess static and dynamic integrity.



# **VALUE**

# Hit the right defect class

Incorrectly calling out anomalies that might be dents and gouges can be costly; differentiation helps match the right action to the anomaly. We look for immediate and future integrity threats, not just purely geometric indicators.

### **DENT AND GOUGE DEFECT**





# EXTENDING BEYOND INSPECTION

Improving safety, efficiency and productivity throughout the life of your pipeline.

# ASSESSMENT SERVICES



# Immediate Integrity Assessment

## **IMMEDIATE THREATS:**

- Metal loss
- Dent strain
- Bending strain
- ▶ Selective seam weld corrosion
- Cracks
- Mechanical damage



# Future Integrity Assessment

## TIME-DEPENDENT THREATS:

- Corrosion growth
- Line movement
- Crack growth
- Dent fatigue
- Other changes in pipeline conditions



# Advanced Integrity Assessment

## MORE COMPLEX THREATS:

- ▶ Non-axial stress corrosion cracking
- Branch connection loading
- Wrinkle bends
- Hard spots
- Other threats requiring finite element analysis (FEA)

# Using the right approach

The right assessment approach, consistent with codes, industry-accepted methods and operator mandates, ensures compliance and auditability.

# Focus on the right decisions

By focusing on the anomalies that matter most, you can make the best integrity decisions for your pipeline.

