

## PIPELINE INDUSTRY ULSD TESTING NEEDS

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## **Testing Needs**

- Must have sulfur test equipment with narrow reproducibility
  - EPA designated test ASTM D6428 method has reproducibility of +/- 16 ppm
  - Pipelines cannot establish a pipeline specification for oversight
    - Typical specification is Reg. Limit + Enforcement
       Tolerance Reproducibility
    - Without a specification, refiners do not know what sulfur level to invest for
  - Narrow repeatability is not enough
    - Tests are done at a variety of locations by a variety of instruments, technicians and labs
    - Product quality depends on reliable testing



## Testing Needs (Con't)

- Must have in-line testing equipment
  - Suitable test equipment is not available
  - Define cut points
    - Sulfur changes much more rapidly than gravity
    - Protective cuts will increase interfaces and transmix
  - Control contamination that happens during transit
    - Terminals could be loading transports from the pipeline delivery tank
    - Just In Time inventory can't wait for tank certification
  - Test equipment must be quick and robust
    - An "OK" "Not OK" indication