

BS&W-CUSTODY TRANSFER STATIC MIXERS

Ways to improve operations and profitability

CASE STUDY #55

With a Primix static mixer perfect homogenization is realized prior the sampling point to enable accurate and reliable measurements in custody transfer pipelines

THE RESULT

- Accurate and predictable measurements
- Meets ISO 3171
- No maintenance

PRIMIXTM
PERFORMANCE BY DESIGN

Background

It is important to measure the basic sediment and water (BS&W) in crude oils and hydrocarbons. Measurements can take place at the wellhead, tank or at custody transfer. BW&W monitors are also commonly called water cut analysers as most of them are installed after a separator and will measure the water percentage. Inaccuracy can result in significant financial losses. How can a PRIMIX static mixer contribute to a accurate measurement?

The Challenge

Any missed water will affect the buyer or the seller financially, regardless a barrel price of US\$50 or US\$100. A small error of 0.1% will easily cost a few hundred thousand dollar yearly. The measuring results must be accurate, repeatable and undisputable.

Design

PRIMIX static mixers for BS&W are designed to comply to the ISO 3171 standard and are suitable for both horizontal and vertical installation. The sample point can be on the mixer or in the connecting pipeline.

For a good measurement, every analyser needs to see a flow as homogenously mixed as possible. All PRIMIX mixers are designed to provide a homogeneous mixture resulting in accurate and predictable measurement performance over the complete flow range. Special designs are available when facing a large flow range eg at end of well lifetime.

Solution

PRIMIX static mixers offer an easy to operate solution without any requirement for maintenance that creates a homogeneous liquid/liquid dispersion.

PRIMIX static mixers can be used in LACT (Lease Automated Custody Transfer) units, on line sampling , automatic sampling or spot sampling.

Please contact your local representative or our sales staff for further assistance.



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