



**BUREAU
VERITAS**

**OIL & GAS
SERVICES**

CRUDE OIL COMPATIBILITY TESTING

Bureau Veritas is a world leader specializing in conformity assessment services related to Quality, Health, Safety & Environment (QHSE).

With a global certification in ISO 9001, Bureau Veritas is committed to providing leading solutions through high quality analytical results.

Well known for its ability to adapt to changing client environments, Bureau Veritas is able to deliver customized solutions to support unique business requirements.

The precipitation of asphaltenes may occur when crude oils are blended in the wrong proportions. When this happens, it can be difficult to redissolve the precipitate, and may even create other problems. With the high costs of crude oils today it is essential to investigate how the lower cost crude oil will blend with your product. Without investigating the blending capabilities, blending with an incompatible crude could cause pipe fouling, tank fouling, and damage to heat exchangers.

Crude Oil Compatibility testing determines the asphaltene solvency properties of bitumen, crude oil, condensate and related products. These properties can be used to calculate the solubility and insolubility which are required to predict asphaltene stability for blending purposes.

HOW CAN BUREAU VERITAS HELP YOU?

In 2017 Bureau Veritas developed a method for crude oil compatibility testing in partnership with the Canadian Crude Quality Technical Association (CCQTA). This method has been submitted to ASTM and its approval is pending. The compatibility of oils for blending, fouling and processibility is determined by observing asphaltene solvency properties for bitumen, crude oil, hydrocarbon liquid (condensate) and related products. The observation is conducted using a microscope. If the solubility properties for two products are known, the compatibility of potential blend ratios can be predicted.

All testing will be performed in our laboratory which is accredited by the Standards Council in Canada (SCC) in compliance with ISO 17025.

BENEFITS

The key advantage of working with Bureau Veritas is getting the right answers—our experts know what to test, when and how in order to:

- Ensure the quality of crude oils
- Predict the feasibility of blending crude oils
- Prevent fouling of pipes, tanks and heat exchangers, saving money on repairs or replacement
- Provide compatibility information that will guide the purchase decision

For more information, contact us at:

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