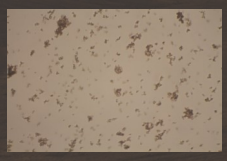
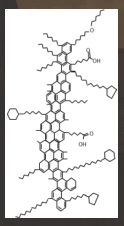
Asphaltenes Testing

Scaled Solutions offers a range of flow assurance services which include test protocols to investigate and prevent the formation of asphaltene deposits and if necessary remediate them



How our services can help you



Asphaltene Testing

Our asphaltenes testing can be carried out using live crude samples or “re-livened” dead crude (Restored and re-equilibrated to reservoir conditions).

Main Services

Laboratory testing :

- Crude Oil Analysis
- Asphaltene Dispersancy Testing (ADT)
- Asphaltene Dissolver Testing
- Dynamic Asphaltene Inhibitor Testing (DAIT)
- Qualification of Asphaltene Inhibitors
- Field Risk Assessment (Asphaltene Precipitation/Deposition)

Supportive techniques:

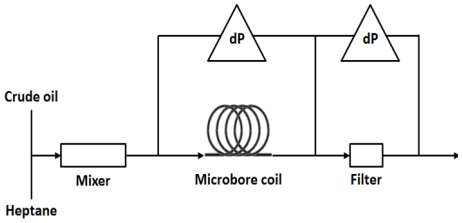
- Asphaltene Precipitation Modelling (PVTsim Nova)

Equipment Design and Build

- Provision of bespoke testing equipment

Dynamic Asphaltene Flow Rig

- Specifically developed test rig; designed and manufactured in-house
- Field representative shear, temperature, pressure
- Deposition on steel under flowing conditions, using dead crude
- Investigate precipitation and deposition simultaneously
- Qualification of Asphaltene Inhibitors including performance, stability and compatibility testing
- Investigate the effect of mixing incompatible fluid streams (e.g. asphaltenic crude + condensate or shale oil)



DAIT Flow Rig Schematic

Scaled Solutions

Key Papers

- Andrew R. Farrell, Samantha Wilson, Amarpreet Kaur, Robert Stalker, Gordon M. Graham (Scaled Solutions Ltd.), Dalia S. Abdallah, Sameer Punnapala (ADNODC Onshore) and Hideharu Yonebayashi (INPEX Corporation); 'Laboratory Qualification of Asphaltenes Inhibitors for Squeeze Application– Best Practices and Case Study'. Presented at the 20th PetroPhase Conference, Kanazawa, Japan, June 2019
- Andrew Farrell, Benjamin Martin, Dario M. Frigo, Gordon M. Graham (Scaled Solutions Limited); "Asphaltenes Risk Assessment and Mitigation - Designing Appropriate Laboratory Test Protocols"; SPE- 193560
- Andrew R. Farrell, Benjamin W. J. Martin, Dario M. Frigo and Gordon M. Graham (Scaled Solutions Ltd.); "Asphaltenes Inhibitor Qualification – Choosing an Appropriate Laboratory Test Protocol", proceedings of the 29th Tekna Oilfield Chemistry Symposium, Geilo, Norway, March 2018
- Andrew R. Farrell, Benjamin W. J. Martin, Dario M. Frigo, Robert Stalker and Gordon M. Graham (Scaled Solutions Ltd.); "Dynamic Asphaltenes Inhibitor Testing – Designing an Appropriate Laboratory Test Protocol", NACE Paper No. MECCOCT18-12635, presented at the NACE 17th Middle East Corrosion Conference & Exhibition, Bahrain, Sept 2018.
- Benjamin Martin, David Nichols & Gordon M. Graham (Scaled Solutions Ltd.); "Evaluation of Asphaltene Inhibitor Performance by Dynamic Asphaltene Inhibitor Testing (DAIT)", proceedings of the 28th Tekna Oilfield Chemistry Symposium, Geilo, Norway, March 2017

Truly Independent Laboratory

At Scaled Solutions, our mission is to be recognised worldwide through our independent specialised laboratories as the leading supplier of bespoke equipment, training, consultancy and provider of solutions to challenges in Production Chemistry, Corrosion and Formation Damage.

We aim to exceed our customers' expectations and improve our service to our customers on a continual basis through our key values: team work & communication, openness & transparency, continual improvement and trust.

Quality, Integrity, Safety and Excellence

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