



## CRUDE OIL ASSAY EXPERTISE

### WHY DO YOU NEED CRUDE OIL EVALUATION

Crude Assay is the comprehensive evaluation of crude oil feedstocks. Each crude oil type has unique molecular and chemical characteristics and there are crucial differences in the quality of each. The data from assays provide refiners, oil traders, and producers assessment to their market position. Assay data helps refineries determine if a crude oil feedstock is compatible for a particular refinery or if the crude oil could cause yield, quality, production, environmental, and other problems.

Characterization of the whole crude and the various boiling range fractions provide information for detailed refinery engineering, marketing, and monitoring of changing streams.



**WHY AMSPEC?**

AmSpec offers high quality crude assays that provide critical information on the unique characteristics of individual crude oil feedstocks and the data required to facilitate decisions so you can take advantage of any opportunity.

AmSpec has state of the art facilities that offers a full spectrum of analytical services including Crude Assay, Physical and Analytical testing, Gas Chromatography, Technical and Research Support, and External Instrument Maintenance/Calibration Services.



PETRODIST 200CC FULLY AUTOMATIC - Vacuum System to improve automatic pressure reduction, following the dynamic vacuum pressure procedure described in method ASTM D5236

PETRODIST 100CC FULLY AUTOMATIC - Processor controlled oil distillation system for fully automatic operation exactly conforming to method ASTM D2892.

**AMSPEC CRUDE ASSAY DEPARTMENT HAS THE FOLLOWING FRACTION CAPABILITIES:**

- + D2892 Distillation Towers: 25 mm & 50 mm Towers \*
- + D5236 Vacuum Pot stills: 25mm & 36 mm Towers \*\*
- + Dewatering Distillation System
- + Assay Turnaround:
  - TBP Assay in < 1 week
  - Short Assay in 1 week
  - Full Assay in 2-3 weeks \*\*\*
- + 24 / 7 Operation with dedicated Crude Assay staff
- + Various Pot sizes for specialty distillations
- + Haverly Software, Spiral Software and custom AmSpec reports tailored to meet client needs
- + Physical, Analytical, GC and Research Capabilities
- + Flash Assay services for Monitoring Programs \*\*\*\*
- + Special Projects: R&D, Engineering, Process Evaluation & Method Development

\* D2892 : Used to replicate distillations from the atmospheric towers of a refinery. AmSpec uses both 25 mm and 50 mm 15-Theoretical Plate column.

\*\* D5236 : Used to replicate distillations from the vacuum towers of the refinery. AmSpec uses both 25mm and 36 mm columns.

\*\*\* Using gas chromatography techniques, AmSpec can provide the TBP / Yields within days, versus the full assay TBP curve and yields, taking weeks to complete. A great screening tool for potential crudes of interest.

\*\*\*\* A Flash Assay provides TBP / Yields from the Rapid Yield Analysis along with key test parameters on the whole crude, so you can make an informed decision whether to proceed with the full crude assay, a cost and time savings for our client.



**STILL HAVE MORE QUESTIONS ?  
CONTACT US NOW**  
CrudeAssay@amspecgroup.com  
[www.amspecgroup.com](http://www.amspecgroup.com)

