

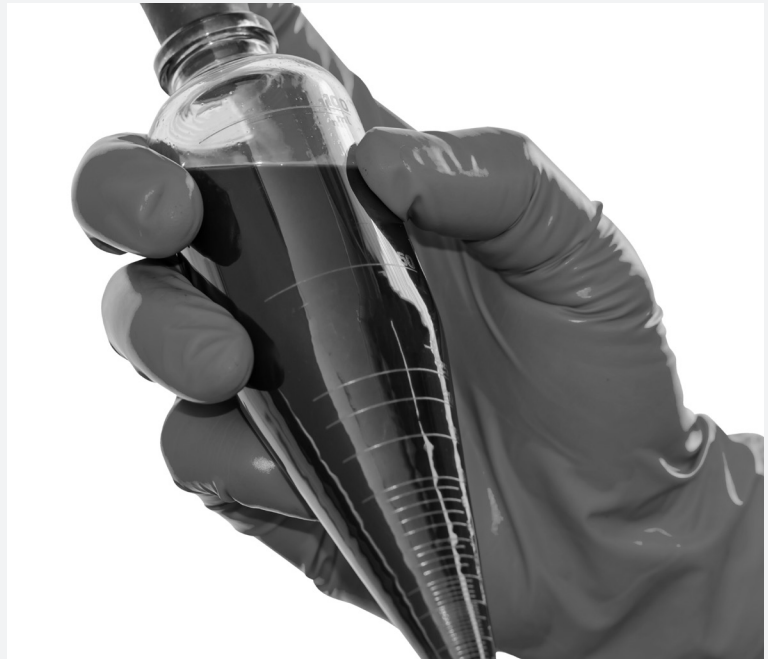
CRUDE OIL ASSAY AND THE IMPORTANCE OF PROPER DEHYDRATION

Crude oil distillation can be a complex and time-consuming process —with most laboratory turn-around times being much longer than desired by the client. And if the laboratory that you've chosen to process your analysis doesn't have the proper equipment necessary for crude oil dehydration, it may result in them having less capacity, longer turn-around times, and possibly poor quality results.

As required by ASTM D2982, crude oil must not contain more than 0.3% water. If it does, it may yield poor quality results, such as uneven boiling and bumping, formation of azeotropes, and instability of vapor temperature.

There are different forms in which water can exist in crude:

- Some water is heavier than most crude oils and this "free water" can form a separate phase at the bottom.
- Water that is emulsified in the crude oil cannot be separated by filtration.
- Water may be bound in crude oil by the presence of polar compounds, salts, and other impurities.



The best systems will remove all of the water from crude oil to ensure the most accurate results in crude oil distillation. And while not many laboratories can boast this type of process, SPL can.

The equipment utilized by SPL for dehydration of crude oil and for the distillation streamlines both processes. Our dehydration unit separates all types of water that may be contained in crude oil (in compliance with ASTM D2892), yielding truer quality results. And the automated distillation system for performing ASTM D2892 and ASTM D5236 speeds up turn-around times, increases capacity, and ensures accuracy.

For the best crude oil assay services, contact our technical experts today at 877-775-5227.