



Requirements

- 30 L of the physical oil sample is needed.
- The scheme of cuts, if the customer does not provide, we would apply the standard with commercial products (LPG, naphtha, kerosene, diesel, fuel oil and the corresponding residue).
- The list of tests required by fractions. Tech Lab has established different degrees of characterization, from a basic one, to the most complete one that includes bitumen characterization

Limitations

- The physical distillation carried out is limited to 565°C AET, if crude oil allow it without cracking, according to ASTM D 2892 and D 5236 standards.
- Assay represents yield of fractions by mass and volume and typical properties, however minimal quality variations should be expected.

The Product in Depth

- The ASTM D2892 test method is used for distillation. The fractionating column has an efficiency of 18 theoretical plates and operates at a 4:1 reflux ratio.
- The residue obtained is vacuum pot still according to ASTM D5236. The reduced pressure allows the volatilization at a lower temperature than in atmospheric conditions so that it can reach up to 565°C AET.
- Among the usual analytical tests are density, sulfur, TAN, cold properties, PIONA, viscosities,, carbon residue, nitrogen content, asphaltenes...

Some Use Cases

- Buying/Selling crude oil
- production planning
- process units optimization
- Prevent future problems during refining process

