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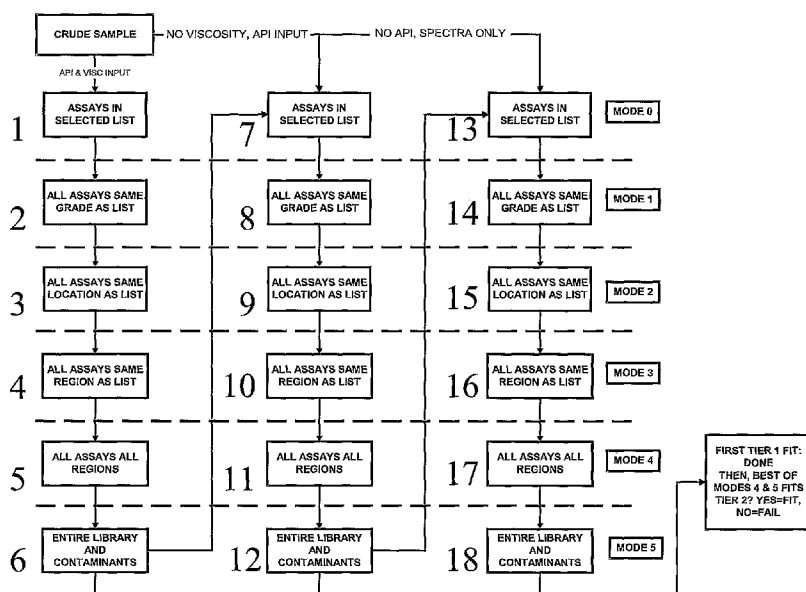
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(54) Title: REFINERY CRUDE UNIT PERFORMANCE MONITORING USING ADVANCED ANALYTIC TECHNIQUES FOR RAW MATERIAL QUALITY PREDICTION



(57) Abstract: A method for the determination of optimal pipestill operation comprising the steps of: feeding a crude oil feedstream into the pipestill wherein the crude oil feedstream is separated into boiling range fractions, performing a virtual assay of the crude oil feedstream to determine predicted boiling range fraction yields, comparing the predicted boiling range fraction yields with the actual boiling range fraction yields from the pipestill to determine differences between these fraction yields, relating the difference between the fraction yields with the operation of the pipestill.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.