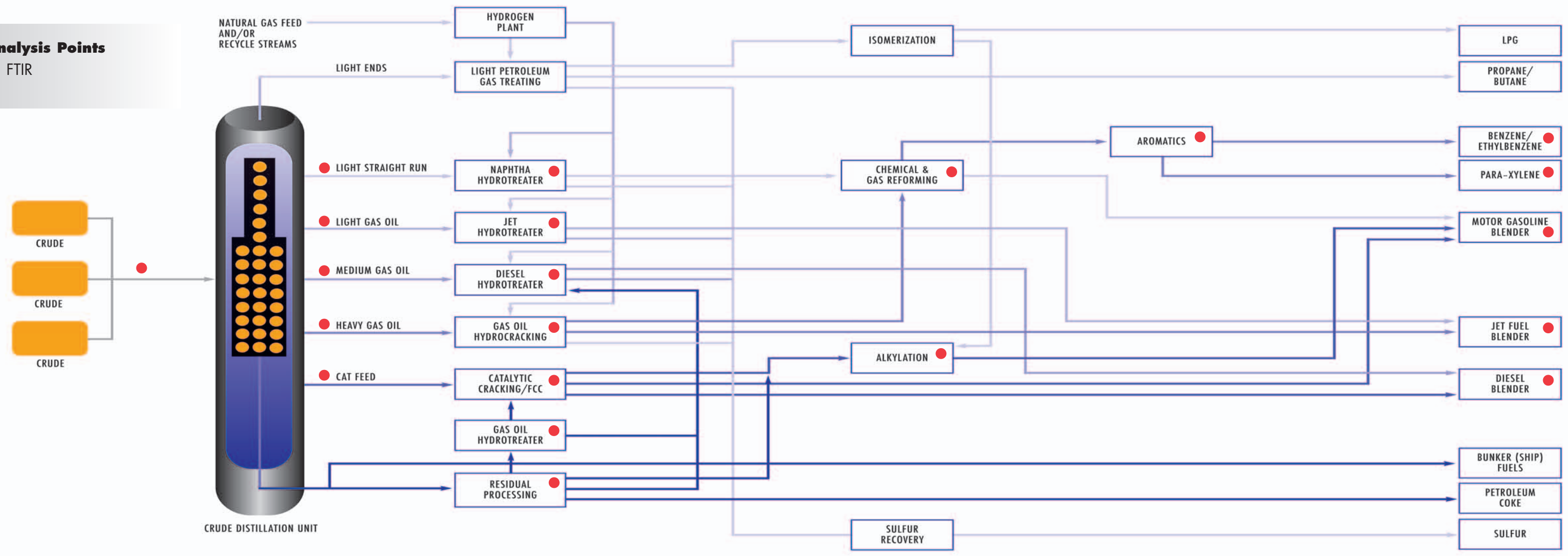


Analysis Points
● FTIR



- Crude Feed Unit**
- Asphaltenes
 - Total Acid Number

- FCC Feed**
- LGO
 - HGO
 - Aromatics
 - API
 - Total Nitrogen

- FCC Product**
- Aromatics
 - Boiling Point
 - Flash point
 - Cloud Point
 - Freeze Point
 - Pour Point
 - Distillation Points
 - API gravity
 - PIONA
 - RON
 - RVP

- Hydrotreater**
- Total Nitrogen
 - Distillation Points

- Reformer**
- Aromatics
 - Benzene
 - Ethyl Benzene
 - Meta-, Ortho-, Para-Xylenes
 - RON, MON
 - RVP

- Jet Fuel Blender**
- Freeze Point
 - Flash Point

- Diesel Blender / Component Streams**
- Cloud Point
 - Pour Point
 - Viscosity
 - Cetane Number
 - Cetane Index
 - Distillation Points
 - API Gravity
 - Poly-Aromatics
 - Total Aromatics
 - Mono-Aromatics
 - Cetane Improver
 - Saturates
 - Aromatics
 - Flash Point

- Gasoline Blender / Component Streams**
- RON
 - MON
 - Distillation Points
 - Benzene
 - API Gravity
 - Aromatics
 - Saturates
 - Olefins
 - Oxygenates
 - MTBE
 - Ethanol
 - RVP

Analect® Hydrocarbon SmartSystem™

On-line, real-time FTIR monitoring of hydrocarbon streams using the extended Mid-IR spectral range. The Analect Diamond 20 is used in the lab for model development of light and heavy refinery applications.



Analect RefinIR™ shown with Diamond 20™

Automated data acquisition sampling accessory for lab analysis of multiple liquid samples of light hydrocarbons at ambient temperatures. Holds up to 27 40mL vials and automatically transfers the sample to a flow-through transmission cell installed in the Diamond 20.



Analect RefinIR™100t oven accessory for

data acquisition of heavy hydrocarbon samples at temperatures up to 100°C. Holds up to 12 40mL liquid samples and utilizes intrinsically safe sensors in concert with the Diamond 20 to perform analyses.



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