

22,600 BPD Ultra-Low Sulfur Diesel (ULSD) Unit for Sale

Capacity

22,600 BPD (Design)
13,600 BPD (Minimum)

Product

Ultra-Low Sulfur Diesel with sulfur content less than 8 ppm

Feedstock

RGO (raw gas oil)
KERO (kerosene oil) / DO (diesel oil) blend
LGO (light gas oil) / LCO (light cycle oil) blend

Engineering Design

Stone & Webster

History

Rebuild in 2002
Shut down in 2010

Major Equipment

- Charge heater
- Reactor
- Recycle gas compressor
- Reactor effluent cooler
- Cold high pressure separator
- Knock out drum
- Product stripper
- Stripper reboiler
- Fuel gas compressor
- Stripper overhead condenser
- Stripper overhead product drum
- H2S absorber
- Hot LPS flash gas cooler



BRIEF PLANT DESCRIPTION

Phoenix Equipment has this used Ultra-Low Sulfur Diesel (ULSD) Unit for sale immediately available. The ULSD Unit has a 73 m³ reactor which operates at pressure of 56 barg. The unit has 4 separators and reboiler type stripper (fractionator), but does not have a high-pressure amine scrubber. The main advantages of the four separator system are:

- Efficient heat integration due to elimination of excessive cooling and subsequent heating of reactor effluent liquid product;
- Lower overall fired heater duty;
- Improved wash water/oil separation since wash water is injected into the gas phase after the reactor effluent oil has been withdrawn.

Inlet hydrogen has pressure of 40 barg and make-up purity of 99.9%. At the operation pressure of 40 – 50 barg, a typical chemical hydrogen consumption is 25 – 45 Nm³/ton of feed.

The ULSD Unit includes a complete SRU (30 TPD) unit and a DEA unit.

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