



Background:

Two Vikoma T14 fixed, disc skimmers with on-board pumps were installed in each bay of an API separator in a refinery. Vikoma's T14 disc skimming system increased oil content of the slops to over 80% from the 20% typically achieved when using the conventional skim pipe solution. A skim pipe in a hazardous area needed significant manual intervention and so was replaced by Vikoma's automated, continuous oil skimming system, significantly reducing the risk of personnel working in a hazardous area. The refinery API separator discharges were required to be a maximum of 15ppm for the efficient operation of the next treatment stage which was a dissolved air floatation system (DAF) and the Vikoma Skimmers were found to produce excellent results, well within the requirement.

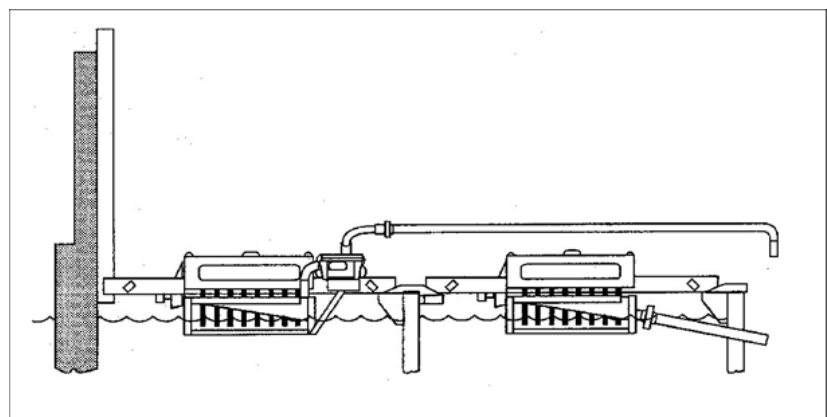
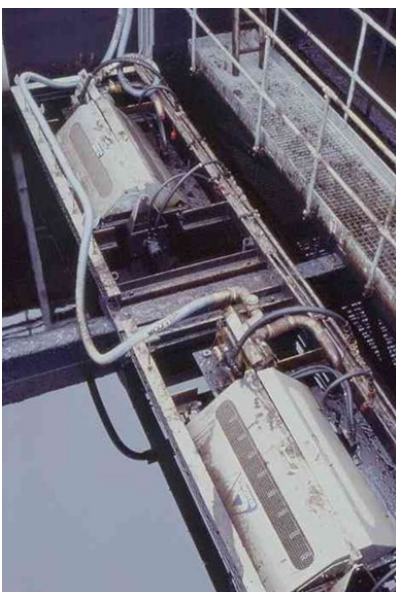
Scenario	- Four bay API type separator in an oil refinery.
Feedstock	- Oil/water from many different sources including crude and product storage areas.
Oil on separator	- Weathered crude oils, lube oil and light products.
Solvents	- Occasional benzene and ethyl benzene.
Separator area	- No operator access without gas safety checks
Classification	- Zone 1

Objective:

Customer objective 1 Feedback	Fixed skimmer systems c/w on-board pumps required. 2 fixed T14 skimmers installed in each API separator bay.
Customer objective 2 Feedback	Recovered oil ratio of minimum 80% oil and 20% water required. Typical recovered oil ratio of greater than 95% oil and 5% water achieved.
Customer objective 3 Feedback	Discharge from API separators to maximum 15ppm for efficient operations of DAF system. Typical discharge level from API of 2ppm achieved.
Customer objective 4 Feedback	Continuous oil skimming required with minimal operator input. Skimmer is operating automatically and no manual input.

Solution:

Vikoma installed two x T14 fixed oil skimming systems c/w on-board pumps. Two skimmers fitted to a beam support frame in each of the API bays. A total of 8 skimming systems provided.



T14 fixed skimming system

For further details please contact your local Vikoma partner or contact us directly on sales@vikoma.com