

Protecting our environment over 50 years



Background:

Vikoma's T9 disc skimming system reduced water content in slops in an API type separator in a refinery, which halved the disposal costs of the slops. An automated system was provided with significant savings on manpower, compared to their previous skim pipe (C-pipe) solution. Single bay API type separator in a distribution area of a specialist product refinery.

of water in the slops. It also required manual input to operate the skim pipe, which required operator's access to a hazardous area.

- Feedstock High viscosity crude oil.
- Oil on separator- Hydraulic, lube oil, diesel & crude.Separator area- No operator access without gas safety checks.Classification- Zone 1.Problem- Existing skim pipe recovery method (C-pipe) collected large quantities

Objective: Customer objective 1 Feedback	Reduce water content of slops. Slops water content significantly reduced by over 50%, reducing cost of disposal.
Customer objective 2	Skimmer to discharge recovered oil, under gravity, into existing skim pipe and discharge pipework.
Feedback	Recovered oil discharged via a run off tray into the existing skim pipe.
Customer objective 3	Skimmer to be capable of dealing with varying oil types and quantities.
Feedback	Skimmer picking up varying types and quantities of oil from the separator.
Customer objective 4 Feedback	Reduced manual input for health & safety as well as economic reasons. Skimmer is operating automatically and no manual input is required other than occasional visual check resulting in manpower cost savings.
Customer objective 5	System to be automatic and requires only annual maintenance check.
Feedback	System operating for many years with no manual input other than annual maintenance.

Solution:

Vikoma installed a single fixed T9 skimmer module located in the API separator on a beam structure. The oil was recovered by the rotating T discs and discharged, under gravity, via a hinged run off tray into the existing skim pipe.





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