

#### Our solutions – Your benefit

- The oil can be sold at a profit or delivered as a base oil for refining or can be energetically utilised as second raffinate
- Environmentally friendly concept
- Low disposal volumes and costs
- Conservation of fossil energy resources



## Westfalia Separator Mineraloil Systems



## Efficiently Drying Up Oil Lagoons

How valuable resources are recovered from waste oil

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Westfalia Separator  
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Take the Best – Separate the Rest

A company of GEA Group

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Binding information, in particular relating to capacity data and suitability for specific applications, can only be provided within the framework of concrete inquiries.

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Everywhere where oils play a role in production processes, more or less large quantities of waste oil or so-called slop oil are produced. This means oil-containing sludges and effluents from a broad spectrum of processes.

When the concept of environmental awareness was still very much in its infancy and statutory regulations were not even on the horizon, the oil-contaminated mixtures were collected in huge lagoons. These residuals did not just pose a considerable disposal problem in disused branches of industry.

Oil lagoons can still be found at operational production locations. Disposal of the waste oil is time-consuming and costly. One of the preferred options is incineration, although this process is extremely energy-intensive due to the high water content.

### Complete solutions for complex requirements

A solution that is just as elegant as it is efficient is the use of separators and decanters. Installations from Westfalia Separator are capable of separating the liquid phases of oil and water so efficiently that a reusable and sellable oil is recovered. The quantity of dry sludge requiring disposal then accounts for just a fraction of the original volume.

Decanter CC 458



### Efficient separation result

Decanters are used in the first stage for separating coarse impurities and clarifying or separating sludge-oil mixtures.

Operating mode: The waste oil enters the decanter bowl through the feed. The solid particles are spun against the bowl wall due to the action of centrifugal force. The scroll conveys them to the solids discharge. The clarified liquid is discharged either under gravity or under pressure.

Depending on requirements, a two-phase or three-phase decanter can be employed to achieve high efficiencies in the separation of solids, oil and water.

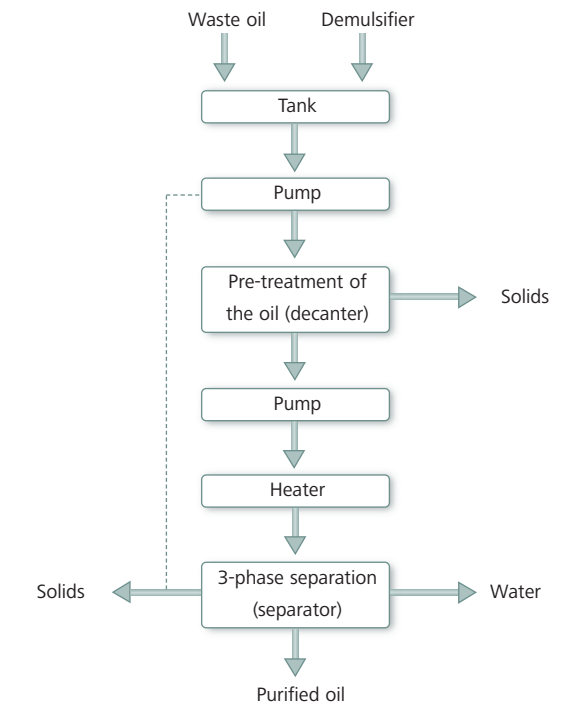
The downstream self-cleaning separator is used for the efficient processing of the liquid phase and solids to attain an enhanced oil and water quality. Result: The recovered oil is a valuable fuel. The water has to undergo further treatment.

Separator OSD 6



### Successful world-wide

Several complete treatment systems for waste oil are meanwhile successfully in operation throughout the world and stand out in particular in terms of their high level of quality and durability.



Mechanical separation technology with decanters and separators is predestined for the treatment of oil-containing sludges and effluents.