## Technical notes of interest to Marine Engineers

## The Alfa Laval MAB separator

A practical maintenance guide

Authored by: Martin Leduc -11.2002

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These units are used extensively on the smaller ships, larger boats and yachts. I have worked on several in my short time at sea. One day we were bored and a bit un-impressed with the cleaning manual we had, so we made our own guide to cleaning them. Following the brief introduction from the Alfa Laval MAB brochure, below, you will find a, hopefully, helpful illustrated guide to routine maintenance on these units.

#### Application

Purification or clarification of mineral oils used in marine installations and power stations (fuel and lubricating oils).

#### Working principle

Separation takes place in a solids-retaining bowl that can be arranged for either clarification or purification. In both cases, the contaminated oil is fed into the separator through the centre, and it is separated by centrifugal force into its various phases, the heaviest phase (sludge and water) being forced outwards to the periphery of the bowl. The accumulation of sludge is periodically removed from the bowl by hand.

#### Installation

The oil is pumped, heated, and separated as shown in the figure. A liquid seal in the separator bowl prevents the oil from escaping through the water outlet. If this seal is broken, an alarm device is activated. With unmanned engine rooms, the signals are transmitted to a remote control unit. When the seal is broken, the three-way valve shuts off the oil feed and the oil is recirculated until the fault is corrected.



# **Alfa Laval Mab Separator Manual S851**

C. Richard Sivalls, Sivalls Tanks, Inc

#### Alfa Laval Mab Separator Manual S851:

MAB 103B-24 Seperator Manual Alfa Laval Seperation AB.,1997 MAB 103B Spare Parts Catalogue Alfa Laval Seperation AB.,

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