

# Sludge Buoy System

- Continuous gravity separation of free oil in tanks
- Floating rod-guided separating disc with an integrated buoy as one unit
- Improvement of downstream treatment processes

## General description

- Separation of up to 6 m<sup>3</sup>/h pure oil
- Function independent of the inclination of the vessel
- Also operates in a high ambient temperature
- Reliable, low maintenance
- 100% oil resistant
- No consumables
- No power consumption
- No spare parts



	From sludge oil tank		From bilge water tank or bilge settling tank
<b>Oil</b>	Separated oil can be burned in the incinerator/boiler	Waterless upland to shore facilities	Drained by gravity or pumped to sludge oil tank
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Problem-free combustion due to low water content in the oil</li> <li>• Reduced cost for onshore disposal</li> <li>• Less diesel oil cost</li> </ul>	<ul style="list-style-type: none"> <li>• Lower water content in the sludge oil</li> <li>• Water separated more effectively</li> </ul>	<ul style="list-style-type: none"> <li>• Less load on the oily water separator</li> <li>• Lower costs for consumables in oily water separator</li> </ul>

## Advantages

- Easy to install by ship crew when tank is opened for inspection
- Short payback time
- No certificates needed
- Supports fulfilment of ISO 14001 standards

## Oil discharge by pump



## Oil discharge by gravity



### The Sludge Buoy

The Sludge Buoy has a maximum capacity, depending on the fluid viscosity, of 6m<sup>3</sup> per hour for separating free oil from water.

### The Sludge Buoy Mini

The Sludge Buoy Mini is the obvious choice in tanks where space is limited, as it has a diameter of only 460 mm. Depending on the temperature, the separating capacity however, remains at up to 4 m<sup>3</sup> free oil/hour.

### High quality materials

The Sludge Buoy System is made of high quality materials, achieving maximum performance and durability in the harsh tank environment. Almost no maintenance is required. We only use stainless steel 316 L and all parts are laser cut for a perfect fit. The buoy and disc material are made of glass-fibre reinforced plastic (GRP); specifically chosen for its excellent mechanical properties combined with a high heat resistance, designed to withstand the harsh environment inside the tanks.

### Design

The Sludge Buoy design is remarkably simple. The minimum moving parts increase the lifetime and offer easy handling on board.

© SKF is a registered trademark of the SKF Group.

© SKF Group 2016

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

PUB 43/P2 16133/1 EN · January 2016