



## COSCO Vessel with 6RT-Flex58T-D Engine Achieves Significant Savings in Cylinder oil Consumption

Chinese shipowner COSCO are currently in the process of upgrading the cylinder lubrication system onboard 8 vessels equipped with Sulzer 6RT-Flex58T-D engines due to high cylinder oil consumption.

### Significant Savings Achieved Quickly

On the vessel M/V “Tao Hua Hai” COSCO have, after upgrading from the standard lubricator to the HJ Lubtronic SIP cylinder lubrication system, achieved significant savings on cylinder oil after only a month of operation.

Latest results show that the cylinder oil consumption has been decreased by 80 liters per day, from 210 liters to 130 liters. This equals savings of up to EUR 32,000 per year.

The vessel crew has stated that the cylinder liner and piston rings still look very wet, meaning that there is still room for further reduction in cylinder oil consumption. The target feed rate is 0.6 g/kWh at all operating loads. Current feed rate is 0.8 g/kWh.

And as COSCO have chosen to upgrade 8 vessels they have a combined savings potential of more than EUR 256,000 per year at a feed rate of 0.8 g/kWh - even more when they reach the target feed rate of 0.6 g/kWh.

### COSCO technical department says:

“We are pleased with the performance of the HJ Lubtronic SIP system on our vessels with Sulzer 6RT-Flex58T-D engines. It enables our vessels to reduce cylinder oil consumption significantly without compromising cylinder condition”.

### HJ Lubtronic SIP – Cylinder Lubrication System

COSCO’s new cylinder lubrication system consists of:

- HJ Lubtronic (the pump).
- HJ SIP (Injection valves).

These combined give shipowners a state-of-the-art cylinder lubrication system, which gives the potential to optimize cylinder condition and at the same time reduce cylinder oil consumption.

The cylinder lubrication system is made for electronically controlled engines such as the Sulzer RT-Flex and MAN Diesel & Turbo ME engines, while it is also suitable for RTA and MC-C engines as well.

HJ Lubtronic SIP is available for retrofit and newbuildings upon shipowner request. COSCO has recently specified HJ Lubtronic SIP for some of their newbuildings.

### COSCO Savings So Far

Before installation	After installation
<b>Feed rate:</b> 0.94 g/kWh	<b>Feed rate:</b> 0.8 g/kWh
<b>CLOC:</b> 210 l/24h	<b>CLOC:</b> 130 l/24h
<b>Difference:</b>	80 l/24h
<b>Savings in EUR:</b>	<u>32,000 per year!</u>
<b>Calculation:</b> 3.33 liters (80/24) /hr X 6,000 r. hrs. X 1.80 USD/liter (/1.10) = 32,000 EUR/year	

### COSCO

COSCO is China’s and one of the world’s largest shipowners. They have a fleet of container, drybulk and oil tankers of more than 800 vessels. COSCO operate on a global scale in more than 1,600 ports in 160 countries.