

**Bernhard Schulte Shipmanagement – Hamburg**  
- HJ SIP performance on Sulzer 7RTA58T engines -

Hamburg-based shipping company Bernhard Schulte Shipmanagement has a large number of vessels in their fleet, and several of them are equipped with Hans Jensen Lubricators A/S' HJ SIP cylinder lubrication.



In September 2009 and April 2010, respectively, Bernhard Schulte had their two vessels M/V “Elise Schulte” and M/V “Angelica Schulte” with Sulzer 7RTA58T engines retrofitted with HJ Mechanical SIP, with a view to reducing cylinder oil consumption and optimizing cylinder conditions. Positive results materialized quickly, and in December 2009, three months after installation, the Fleet Manager in charge of the upgrades for Bernhard Schulte, informed us that:

*“its a pleasure for me to tell you that the HJL equipment installed on board of our mt Elise Schulte is performing well and for the 1st time in vessels history as far as we know, the condition of liners and piston-rings look excellent with the lowest consumption of CO so far.”*

The HJ SIP cylinder lubrication principle is based on fresh cylinder oil being supplied with every piston stroke, where it is sprayed into the cylinder and by using the scavenge air swirl, the cylinder oil is distributed in an even layer on the upper liner wall. This means that consumption has been reduced and the need for regular replacements of liners has been eliminated, due to the installation of HJ SIP.

### **Positive Results**

In January 2012 Hans Jensen Lubricators A/S were updated on the experiences onboard their two vessels. It was stated about M/V “Elise Schulte”:

*“Reduction in cyl. Oil consumption: excellent -Before installation 1.30 g/kWh - 350 ltrs/day -After installation 0.65 g/kWh - 180 ltrs/day -Before installation vessels was famous for high liner wear. Problems were that time expected in demister construction scav. air cooler. After installation this ‘disappeared’ -Cylinders/pistons/rings condition –good”*

**Calculation example: With 250 sailing days and a lube oil price of 2.10 USD/liter, this equals savings of 89,250 USD/year ( $350 \times 250 \times 2.1 = 183,750$  USD –  $180 \times 250 \times 2.1 = 94,500$  USD /  $183,750 - 94,500$  USD = 89,250 USD)**

And about M/V “Angelica Schulte”:

*“ME running hrs since HJL installation 9594 hrs, 20 months Current Cyl. Oil consumption: 180 ltrs/day, 0.66 g/kWh”*

Based on these positive results, Hans Jensen Lubricators A/S and Bernhard Schulte have continued cooperation about upgrading cylinder lubrication onboard additional Bernhard Schulte vessels.