



Reduction in cylinder oil consumption -using load regulation

Based on a wish to accommodate the needs for operation at reduced load, Chinese shipowner Aoxing Ship Management experienced a significant reduction in cylinder oil consumption when they switched to a load regulation from Hans Jensen Lubricators onboard one of their vessels: the M/V SC TAIPEI.

An upgrade to load dependent operation

The upgrade involved a conversion from traditional RPM dependent lubrication to an automatic solution, where lubrication is based on engine load. This meant that the vessels engine was now ready for load dependent operation, automatic adjustment of cylinder lube oil consumption according to engine load, and a general optimization for slow steaming.

Statement from Buwei Hu, Tech. Superintendent, Aoxing Ship Management:

“We have experienced a massive reduction in cylinder oil consumption using Hans Jensen BHP regulation.”

Savings using BHP regulation

Engine: 5S50MC

Before installation

Feed rate: 1.15 g/bhph

Daily CLOC: 280L

After installation

Feed rate: 0.7g / kWh

Daily CLOC: 160L

Savings (example)

120L saved per day

x \$2 per liter cylinder oil

= \$240 saved per day

\$240 x 200 sailing days

= \$48,000 saved per year

Preliminary results are looking positive and Aoxing Ship Management is therefore contemplating fitting more vessels with products from Hans Jensen Lubricators A/S.

From 280 liters to 160 liters per day

Already few weeks after installation onboard the M/V SC TAIPEI, Aoxing Ship Management is experiencing a significant reduction in cylinder oil consumption. Payback time is short – only a matter of months!

Before installation of a load regulation, the vessel consumed 280 liters of cylinder oil per day, but with the inclusion of a BHP regulation, consumption has decreased to 160 liters per day.

The result is a savings of 120 liters of cylinder oil per day, which in turn gives a yearly savings of approximately \$48,000. The feed rate before was at 1.15 g/bhph and is now fixed at 0.67 g/bhph.

In addition to reducing operational costs for the vessel using a cylinder lubrication product from Hans Jensen Lubricators, it also means that the M/V SC TAIPEI will have a better chance of maintaining good cylinder condition, due to the well-adjusted cylinder lube oil consumption.

**Mr. Hu Buwei, Superintendent
in charge of retrofit project**

