



CLOC automatically adjusted according to engine load with BHP regulation

Decreasing operational costs by upgrading lubrication system to BHP dependent lubrication, this means that Asia Maritime Pacific’s vessel is ready for operation at low load.

Converting from RPM to load dependent lubrication

In May 2013 Chinese ship owner Asia Maritime Pacific decided to go for an upgrade of existing lubricators onboard 6 of their vessels with MAN B&W 6S42MC and MAN B&W 7S35MC respectively. The purpose for the upgrade was to convert the RPM dependent lubricators to being load dependent, and thus prepare the vessels in the best possible way for operation at low load. With the inclusion of a BHP regulation from Hans Jensen Lubricators, cylinder oil consumption is automatically adjusted according to engine load and the intention was to both prepare for slow steaming and to reduce operational costs.

Simple upgrade procedure using HJ regulation

M/V “Yangtze Spirit” was one of the first vessels upon which the equipment was to be installed, and this was

<p>Savings using BHP regulation Engine: 6S42MC</p> <p>After installation Feedrate: 0.92g / kWh (target) Daily CLOC: 87</p> <p>Savings (example) 72L saved per day x \$2 per liter cylinder oil (est.) <u>= \$144 saved per day</u> \$144 x 200 sailing days <u>= \$28,800 saved per year</u></p>	<p>carried out in July 2013 in Zhangjiagang. The upgrade is a relatively simple procedure, which was carried out in 19 man hours, and shortly after the installation results already</p>
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began to show.

Before installation M/V “Yangtze Spirit” consumed approximately 159 liters of cylinder oil per 24 hours at 50% load, but with the load regulation installed, this figure was reduced to 87 liters of cylinder oil per 24 hours at 50% load. Further, feed rate onboard the vessel is now fixed at 0.92 g/kWh regardless of engine load, and the advantage for Asia Maritime Pacific is that they will then not risk over- nor under lubrication when changing load.

Actual savings using BHP regulation

With 72 liters of cylinder oil saved per day, and 200 sailing days per year, Asia Maritime Pacific will have a potential reduction in oil consumption of 14,400 liters of oil per year, and if this is purchased at only 2\$ per liter, yearly savings amount to 28,800\$. For Asia Maritime Pacific this can be multiplied by 6 when installation onboard remaining vessels are realized.

Person in charge of lubricator retrofit project from Asia Maritime Pacific

