



COSCO Bulk Carriers upgrade 5 vessels with HJ Mechtronic SIP and saves EUR 265,000 per year!

On five vessels in their Handymax fleet, COSCO Bulk Carriers has chosen to upgrade the vessels' mechanical lubricators with an electronic upgrade: HJ Mechtronic in combination with HJ SIP valves. The vessels are equipped with MAN 6S50MC-C engines.

55 percent reduction in cylinder oil consumption

On average before the upgrade the vessels were consuming 240 liters of cylinder oil each day per vessel. After installation of HJ Mechtronic SIP the average consumption has been lowered to 110 liters per day. The result is a savings of 130 liters per day equal to EUR 53,000 per vessel per year.

All five vessels combined save a total of EUR 265,000 per year!

COSCO Bulk Carriers says:

"The HJ Mechtronic SIP system has been a very good investment for us. The large savings in cylinder oil means that the system pays for itself in no time at all. In addition to the savings, the condition of the cylinders has been optimized as well."

Why upgrade mechanical lubricators?

Mechanical lubricators are RPM dependent. This means that they are prone to over consumption of cylinder oil and thus also to over lubrication of cylinders. The result is both an unnecessary consumption of cylinder oil and a risk of compromised cylinder condition.

The upgrade: HJ Mechtronic SIP

When upgrading the mechanical lubricator it will be converted from RPM to being load dependent. The HJ Mechtronic system will automatically adjust the feed rate according to ME load or sulphur percentage of fuel oil.

In addition, the crew will be able to monitor and make adjustments to the cylinder lubrication system through a computer interface.

And as COSCO Bulk Carriers have chosen HJ SIP valves in combination with HJ Mechtronic they have enabled a very large savings potential as well as optimization of cylinder condition.

The HJ SIP valve works very differently from the standard non-return valve. It injects the oil above the piston, directly on the liner wall for optimum distribution and protection of liner and piston rings.

Savings in cylinder oil

Before installation	After installation
CLOC: 240 l/24h	CLOC: 110 l/24h
Difference:	130 l/24h
Savings per vessel:	<u>53,000 EUR per year</u>
Savings all 5 vessels:	<u>265,000 EUR per year!</u>
Calculation: 5.41 liters (130/24) /hr X 6,000 r. hrs. X 1.8 USD/liter (/1.10) = 53,116 EUR/year	

COSCO Bulk Carriers

COSCO Bulk Carriers owns more than 230 large sized vessels of various sizes such as Capsize and Handymax with a total carrying capacity of more than 18 million DWTs. They are one of the largest bulk carriers in the world.