



Low Cylinder Oil Consumption with HJ Mechtronic SIP on the Vessel M/V “Glücksburg” Equipped with a MAN 7S60MC-C Engine

German Shipowner Brise Group Hamburg Experiences Significant Reduction in Cylinder Oil Consumption due to the HJ Mechtronic SIP cylinder lubrication system when Super-slowsteaming their vessel M/V “Glücksburg”.

M/V “Glücksburg” is equipped with a MAN 7S60MC-C engine and has seen very good results after upgrading the cylinder lubrication system to HJ Mechtronic SIP. Cylinder condition has been good even when the vessel has been super-slowsteaming (15% ME load). With HJ Mechtronic SIP the vessel has reduced feed rate from 1.2 g/kWh to 0.7 g/kWh.

Now, the speed of the vessel has been increased to 35% load. If the vessel had not upgraded they would have continued to use a feed rate of 1.2 g/kWh, this would have resulted in a cylinder oil consumption of 169 liters per 24 hours. Because they have upgraded the feed rate has remained at 0.7 g/kWh resulting in a cylinder oil consumption of 49 liters per 24 hours.

The low feed rate mean that Brise Group Hamburg is currently saving EUR 57.200 per year on cylinder oil when slowsteaming. The technology of the HJ Mechtronic SIP has proven that good cylinder condition is attainable when slow- and superslowsteaming combined with very low feed rates.

Technical Director, Stefan Lindberg, Brise Group says:
“On our vessel M/V “Glücksburg” we have experienced very good results with HJ Mechtronic SIP. The feed rate has been reduced by more than 40%. We believe that there is room for further reduction.”

Through their experiences with our equipment Brise Group Hamburg is very satisfied with the performance. They are currently considering a service agreement for maintenance of the cylinder lubrication system combined with a HJ SIP

overhaul service agreement. This achieves fixed low costs for overhauling the entire cylinder lubrication system on an optimum basis according to TBO.

HJ Mechtronic SIP

The system is an upgrade to the mechanical lubricators. The HJ Mechtronic system enables electronic control through PC operation as well as automatic regulation of feed rate through smart computer algorithms according to the actual load of the engine or optionally according to Sulphur percentage of the fuel oil. The HJ SIP injector is the key to reducing cylinder oil consumption even further and to optimize cylinder condition through patented distribution of the cylinder oil directly on the liner wall in the upper part of the cylinder.

Through this unique technology of frequent injection of cylinder oil and optimum distribution the vessel M/V “Glücksburg” have achieved significant reduction on cylinder oil and optimized cylinder condition. This translates directly in to a better bottom line for the shipowner Brise Group Hamburg. We look forward to continuing our good cooperation with Brise through possible service agreements which keep their cylinder lubrication equipment in good condition.

Before installation	After installation
CLOC: 169 l/24h	CLOC: 49 l/24h
Difference:	120 l/24h
Savings per vessel:	<u>57,200 EUR per year</u>
Calculation: 5 liters (120/24) /hr X 6,000 r. hrs. X 2.1 USD/liter (/1.10) = 57,200 EUR/year	