



Hans Jensen Lubricators demonstrate that HJ Lubtronic SIP is the optimum cylinder lubrication technology for RTA engines

Low feed rate on RTA48 engine and improved engine reliability

4 out of 5 RTA48 engines have been upgraded with HJ Lubtronic and HJ SIP. The upgrade has resulted in a reduced feed rate from 1.14 g/kWh to 0.7 g/kWh and reduced wear on piston rings and liners.

After a successful upgrade of 4 vessels, the 5th vessel will be retrofitted in June 2017. With promising results of the 4 running vessels, the owner is looking forward to the next upgrades.

The owner comments:

"The owner is pleased to confirm that the results of the cooperation with Hans Jensen Lubricators so far are giving very positive results.

The owner and HJL has mutually agreed on installing HJ Lubtronic and HJ SIP valves for 5 vessels where 4 of the vessels already are in satisfactory service. The 5th vessel is due for installation in June 2017.

After 5 months of operation we see savings in cylinder lube oil of up to 48% without compromising the cylinder liner conditions.

- Average CLOC before installation was 163 liters per day with a feed rate of average 1,14 g/kWh.
- Now CLOC is average 85 liters per day with feed rate of 0,7 g/kWh.

The first port inspections suggest to lower the feed rate even more as there actually are signs of over lubrication.

All piston rings found in good, smooth and loose condition."

- Managing Director

Feed rate and cylinder condition before and after installation

The vessels equipped with the RTA48 engine were operating with an average feed rate of 1.14 g/kWh. Current feed rate after installation is 0.7 g/kWh.

The engines were facing problems with frequent cracked piston rings and high cylinder liner wear. Further to this the good cylinder and piston rings condition shows that there are a potential of longer lifetime.

Consumption	
Before Installation	After Installation
Feed rate: 1.14 g/kWh	Feed rate: 0.7 g/kWh
CLOC: 163 ltr/24 hrs	CLOC: 85 ltr/24 hrs
Savings in CLOC: 78 ltr/24 hrs	

Based on SDA analysis and HJ FROP - Feed Rate Optimization Program - our recommendation is to lower the feed rate to 0.6 g/kWh.

By exchanging the standard lubricator and non-return valves with HJ Lubtronic and HJ SIP you will be able to obtain the following:

- Optimum utilization of the injected cylinder oil.
- Improve cylinder condition and engine reliability.
- Reduced cylinder oil consumption.
- Minimize risk of cold corrosion and reduce wear.
- Reduce particulate emission - Become a greener fleet.