

TB-Marine Reference Report, by Mr. Viktor Piven

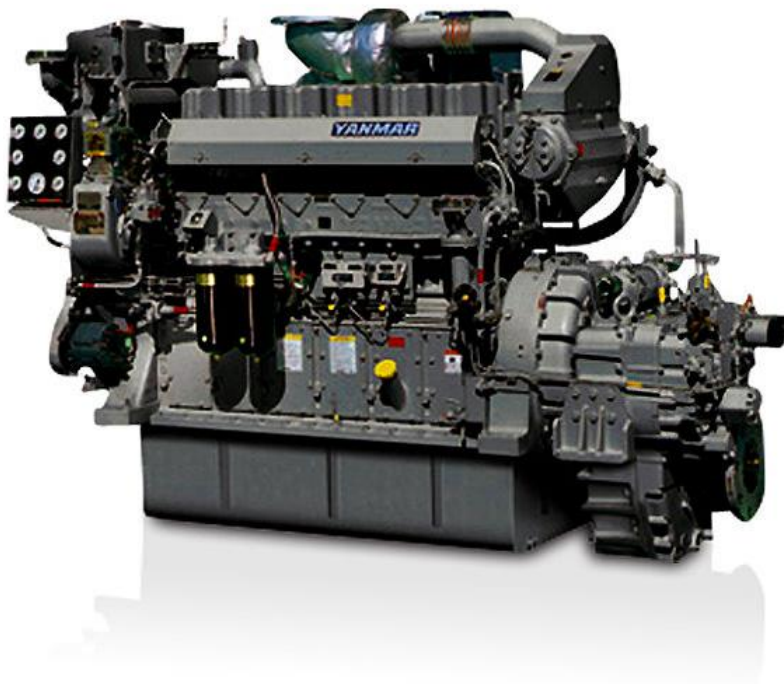
The engines received REWITEC® PowerShot® 50 applications, to **better** ^{improve} the running ability of the engines, less oil usage, less fuel consumption, less down time and many other benefits.

What was stated by Mr. Viktor Piven, Technical Superintendent by TB-Marine Shipmanagement GmbH & Co. KG, Paul-Dessau-Strasse 6, 22761 Hamburg, was:

Engine: 2 x Main Engines Type: YANMAR 6RY17P-GV, 736 kW,

“Displacement 28 Liters and Sump capacity 240 Liters of oil”

- In less than 200 hrs the engine went down in the oil usage from, 24 liters of oil in 20 hours to 10 liters of oil in 24 hrs.
- The gas temperature went down about 5 degree Celsius
- The smoke is clearer
- You can see the oil improvement after 500 hours
- Blow-by went down
- Better combustion
- We could see the oil improvement after 500 hours, **LO** (“Lot Of”) ^{was ist das???} service hrs between renewing extended significantly.

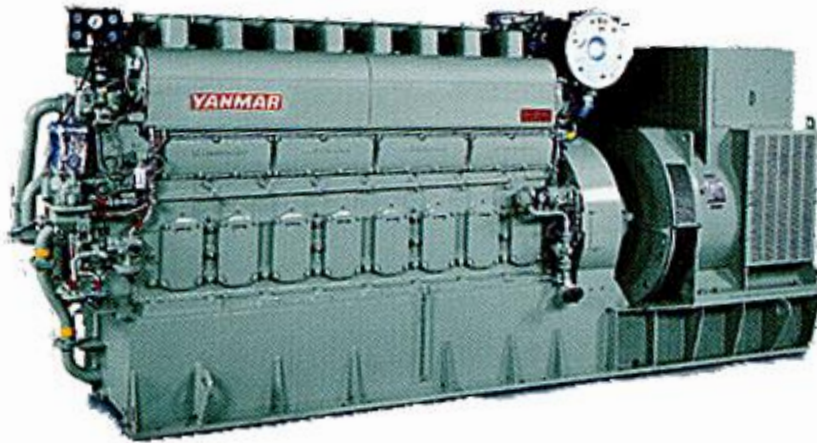


Picture 1: Example of a treated engine

Engine: YANMAR 8N21L-EV, 900kW

"Displacement 80 Liters and Sump capacity 1,200 Liters of oil"

- Engines Performance improved
- Exhaust Gas temperature dropped for 10 C
- One cylinder cover been stripped for checking at about 1000 running hrs after the application, noted was that all internal parts where clean and in very good condition. Suppose to extend time between overhaul and as a result/benefit to save money for AE ("Auxiliary engine") spares.



Picture 2: Example of a treated engine