

Upgrade solution for TPL76-C  
W46 & W50 Engines – Marine

## Performance Upgrade

“This fast to implement drop-in upgrade solution uses the latest technology to increase performance and lower OPEX.

This makes customers turbochargers more competitive, especially when combined with engine side upgrades.”

**Simone Bernasconi,**  
Head of Product Line Upgrades, Accelleron.



Fuel savings  
up to 3%



Lower exhaust temperature  
up to 20°C  
reduction



Solution  
drop-in



Maintenance cost  
up to 30%  
reduced



Rotating component exchange  
interval  
extended by 50%



## Turbocharger Upgrade Solution Upgrade to the TPL76-C8X

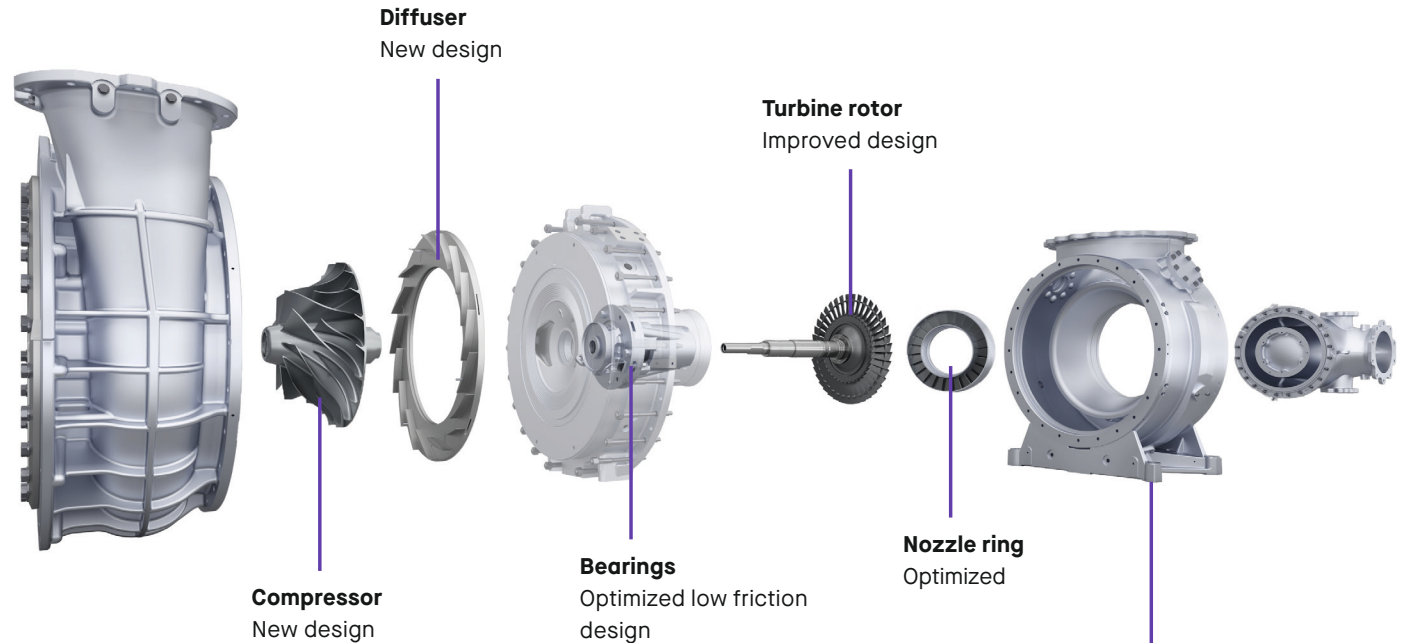
### The solution in a nutshell

The TPL turbocharger component upgrade (developed in collaboration with Wärtsilä) increases the performance of both turbocharger and engine alike. This simple, drop-in solution replaces internal components only, meaning no changes to external connections and interfaces and the upgrade can be performed much quicker, getting you back on track in under 12 hours.

Because the upgrade consists of improvements to several key components, such as new compressor wheel and diffuser designs, improved turbine and nozzle ring, and optimized low friction bearings, to name a few, you can enjoy a significant increase in fuel savings and a reduction in exhaust gas temperatures. In addition, due to the extended interval for replacement of rotating components, you can benefit from lower maintenance costs, ensuring you stay ahead of your competition. That's why the TPL component upgrade is your formula for success.

### Application

- For turbocharger type TPL76-C
- Wärtsilä engines W46 and W50 fitted with TPL76-C turbochargers
- All fuel types: Diesel, HFO, MDO, Gas



Engine	W8L46F with TPL76-C8X
Rated engine power	9'600 kW
Major engine load point	85%
Yearly running hours	5'000 h
Fuel savings	1g/kWh
<b>Annual added value</b>	
Exhaust gas temperature	0-15°C
Fuel savings (@440\$/t HFO)	18'000 \$/year

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