

Upgrade solution for TPL69-A  
W38 Engines – Marine

## Performance Upgrade

“This 100% drop-in solution, when combined with engine side upgrades, makes customers’ turbochargers more competitive with lower operational costs and increased performance.”

**Peter Cellbrot,**  
Product Manager Upgrades, Accelleron.



Fuel savings  
up to 2,5%



Lower exhaust temperature  
up to 50°C  
reduction



Solution  
drop-in



Maintenance cost  
up to 30%  
reduced



Rotating component exchange  
interval  
extended by 50%

## Turbocharger Upgrade Solution Upgrade to the TPL69-A4X

### 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 plus 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, to name a few, you can enjoy a significant increase in fuel savings and a reduction in exhaust gas temperatures. These fuel savings result in a CO<sub>2</sub> emissions reduction of around 401 t/year, which is equivalent to planting 6'633 trees a year<sup>1,2</sup>

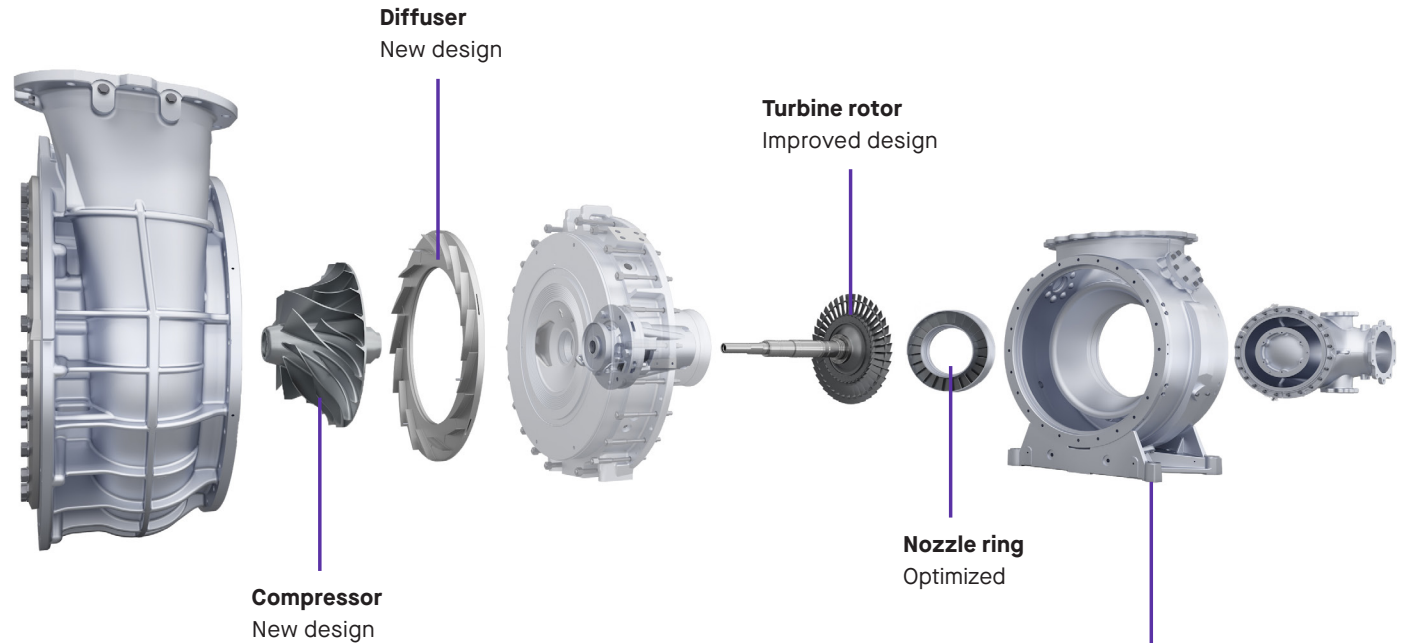
In addition, due to the extended interval for replacement of rotating components, you can benefit from lower maintenance costs, ensuring you stay ahead of your competition. That's why the TPL component upgrade is your formula for success.

<sup>1</sup> Figures based on case study and US EPA equivalence calculator  
<https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>

### Application

- For turbocharger type TPL69-A
- Wärtsilä engines W38 fitted with TPL69-A turbochargers
- All fuel types: HFO, MDO, Gas

[accelleron-industries.com](http://accelleron-industries.com)



Engine	W12V38C with TPL69A4X
Rated engine power	8'700 kW
Major engine load point	85%
Yearly running hours	5,000 h
Fuel savings	3.5g/kWh <sup>2</sup>
<b>Annual added value</b>	
Exhaust gas temperature	-20°C <sup>2</sup>
Fuel savings (@440\$/t HFO)	57'000 \$/year

<sup>2</sup> In combination with an engine upgrade

