Upgrade solution for TPL73-A
W38, W46, W50 & ZA40 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	Lower exhaust temperature	Solution	Maintenance cost	Rotating component exchange interval
up to 3%	up to 50°C reduction	drop-in	up to 30% reduced	extended by 50%

Turbocharger Upgrade Solution
Upgrade to the TPL73-4AX

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.
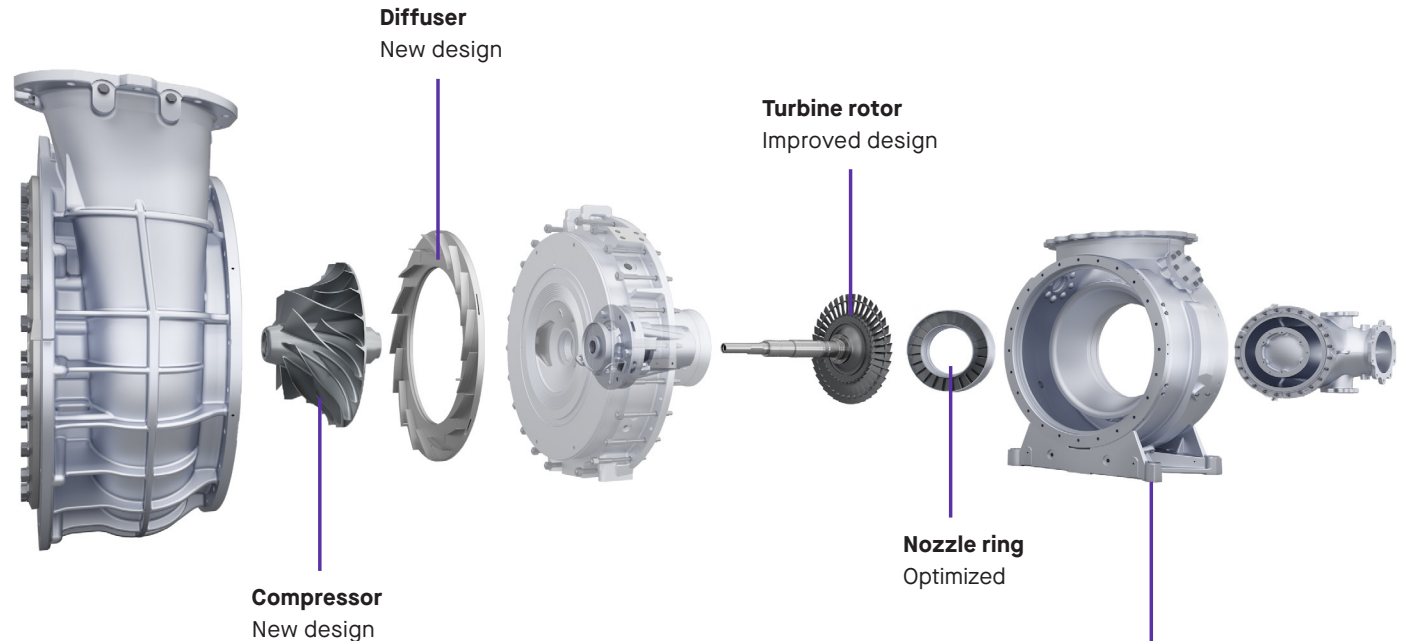
Because the upgrade consists of improvements to several key components, such as new compressor wheel and diffusor designs, improved turbine and nozzle ring, to name a few, you can enjoy a significant increase in fuel savings and a reduction in exhaust gas temperatures. In addition, due to the extended 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: HFO, MDO, Gas

Diffuser
New design

Turbine rotor
Improved design

Nozzle ring
Optimized

Compressor
New design

Engine	W12V46C with TPL73-A
Rated engine power	12,840 kW
Major engine load point	85%
Yearly running hours	5,000 h
Fuel savings	3.5g/kWh[1]
Annual added value	
Exhaust gas temperature	0-50°C[2]
Fuel savings (@440$/t HFO)	75'291 $/year

[1] In combination with an engine upgrade
[2] Reduction dependant on original design version