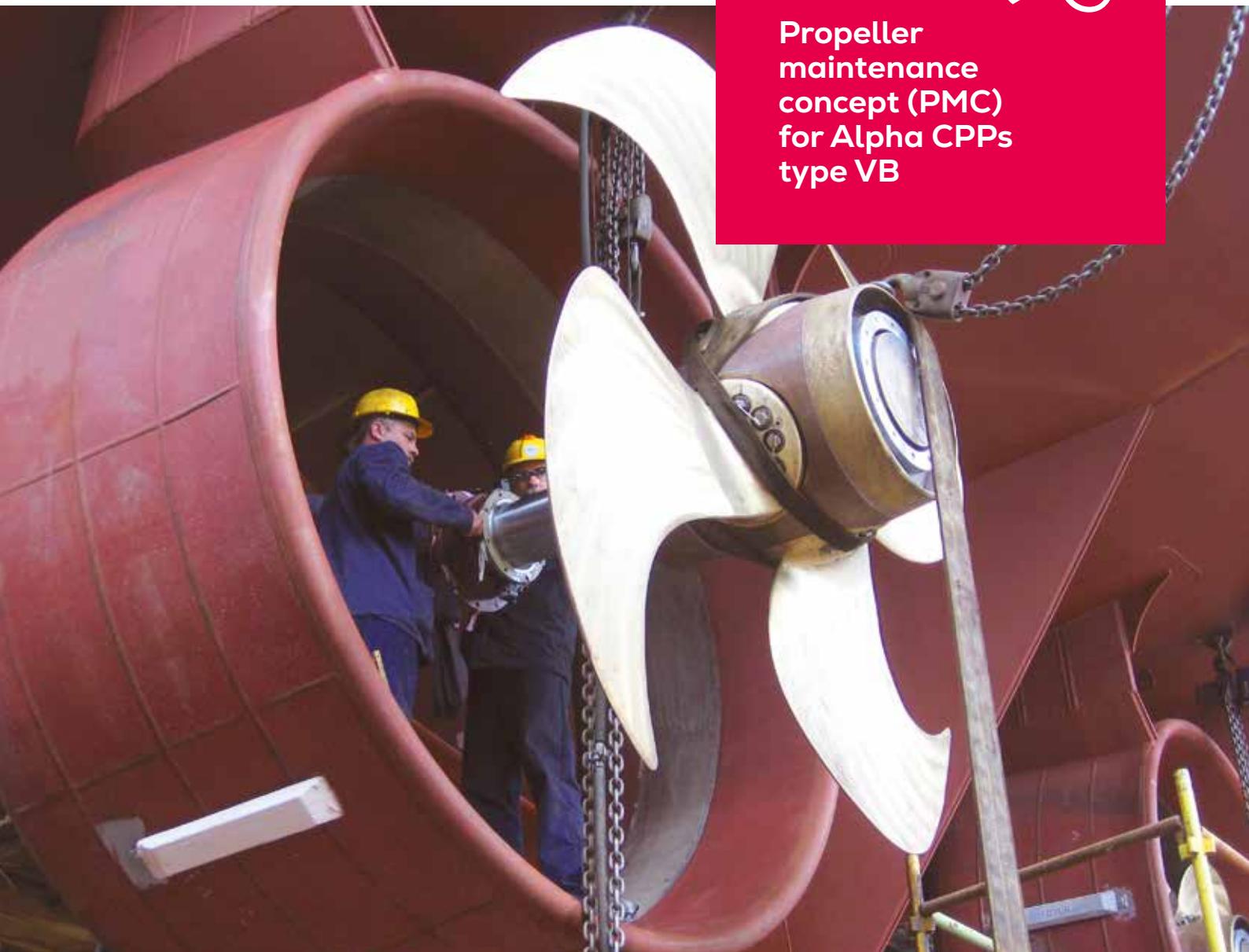


Everllence

PrimeServ

Plan your PMC



Propeller
maintenance
concept (PMC)
for Alpha CPPs
type VB

5 and 10 year

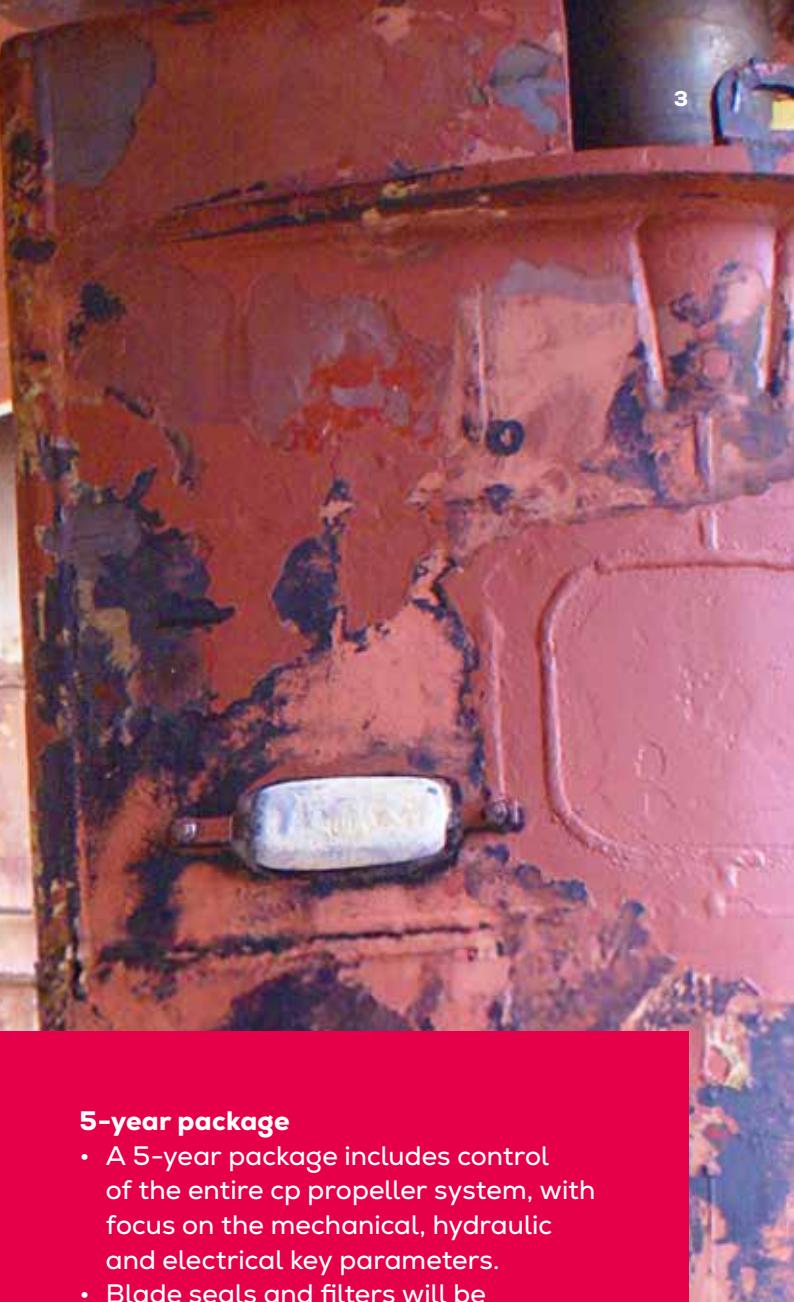
Propeller maintenance



To ensure the long-term peak performance and reliability of your Alpha VB propeller and Alphatronic propulsion control system – Everllence can now offer an extended package with after-sales services for new and existing systems.

Maintenance concept - VB

The service package will typically include our standard VB propeller maintenance performed in connection with the 5 and/or 10 year inspections – in accordance with the docking periods recommended by the classification societies.

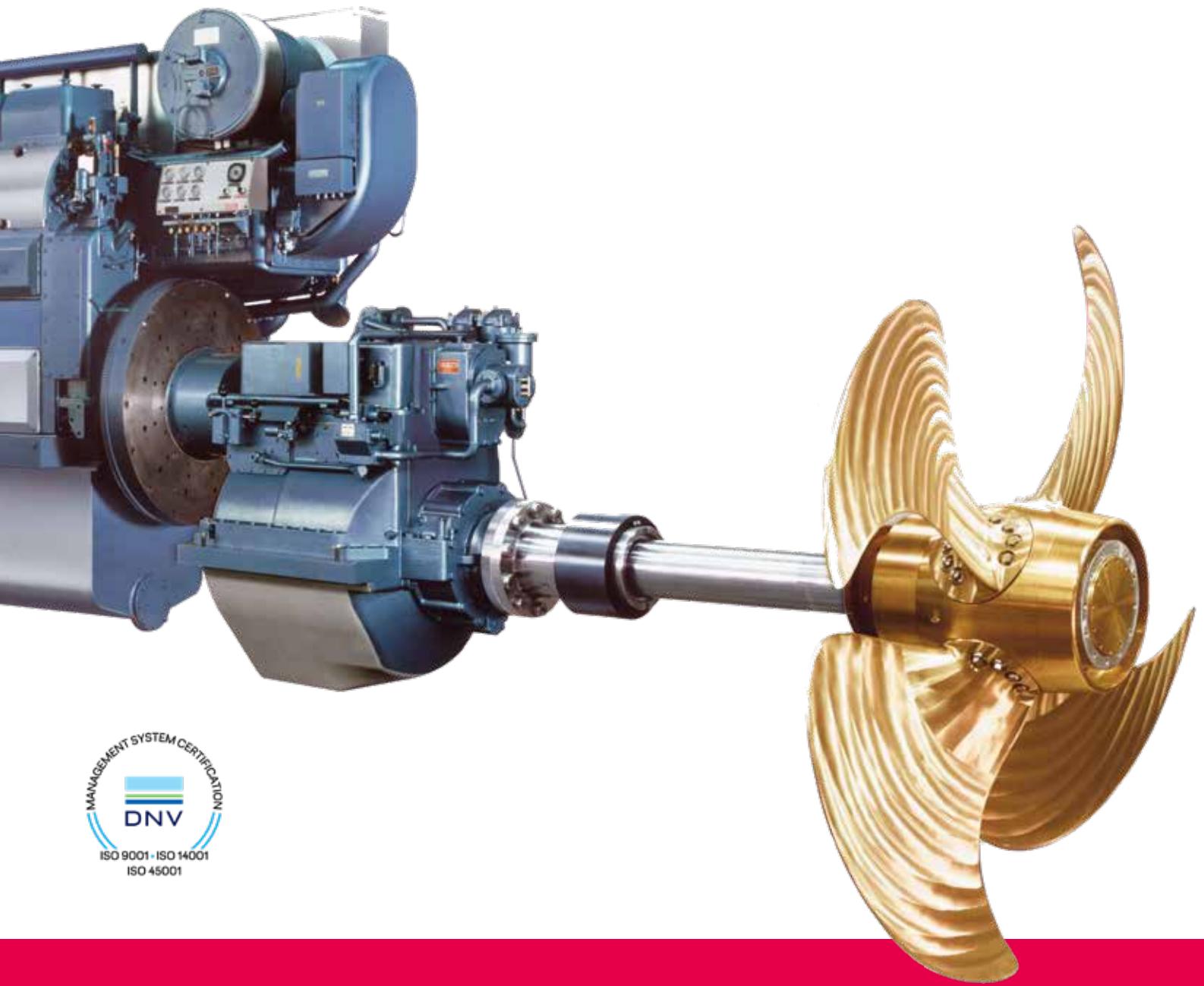


5-year package

- A 5-year package includes control of the entire cp propeller system, with focus on the mechanical, hydraulic and electrical key parameters.
- Blade seals and filters will be exchanged.
- Tolerances on wearing parts will be control-measured and recorded.
- Guidance for the remaining lifetime will be given.

10-year package

- A 10-year package additionally includes an extended inspection and overhaul of the entire propeller hub.
- Wearing parts will be control-measured and recorded.
- Guidance for the remaining lifetime will be given.



The extent of our service and scope of inspections are performed according to Everllence's accumulated experience and durability recommendations to the classification societies.

A Maintenance Concept

Tailored to your operational needs

Customer advantages

Example of parameters checked:

Hydrodynamic

Blade surface, possible cavitation marks or impact damages. Blade shape, via 3-point geometrical measurements.

Mechanical

Clearance measurements of propeller hub, blade feet and pitch control head. Exchange of blade seals.

Hydraulic and pitch control

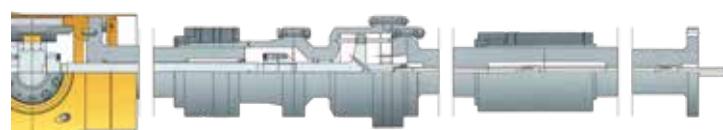
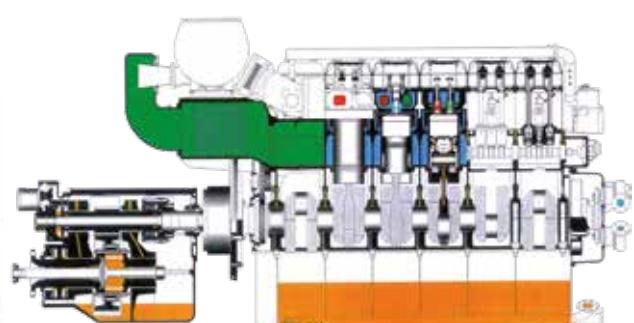
Check of gearbox or shaft servo-oil system and stern tube sealing. Performance test of the pitch control, and re-adjustment pitch control movement.

Electrical

Adjustment of pitch feed-back system. Control of manoeuvre system response time. Check of remote, local and emergency manoeuvres.

Customer benefits and documentation

- Optimal service and overhaul planning.
- Certificate and measuring reports supplied.
- Maximum reliability between scheduled dockings.
- Optimized operational economy.
- Service cost transparency.



VB propeller with servo in gearbox (above)

VB/VSA propeller with servo in shaftline (left)

Safe and accurate propulsion control

From your finger tips
to the propeller tips





Final PMC functionality test

Alphatronic control system

Test of pitch manoeuvring functions from Bridge, Engine Control Room and local emergency control on gear or servo unit.



PrimeServ

Service with passion

Everllence PrimeServ is the dedicated Everllence service brand. Via a network of over 100 service centers worldwide, Everllence PrimeServ provides 24/7 service across the globe. Our range of services includes technical support, consulting and OEM spares, as well as maintenance, repair and individualized service plans like our Propeller Maintenance Concept.

24

hours a day

365

days a year



Everllence PrimeServ's aim is to provide

- Prompt delivery of high-demand OEM spare parts within 24 hours
- Fast, reliable and competent customer support
- Ongoing training and qualification of operators and maintenance staff
- Global service, 24 hours a day, 365 days a year
- Diagnosis and troubleshooting with our high-performance PrimeServ ASSIST online service



Worldwide service

We offer retrofitting and upgrade services to bring propellers, propulsion systems, engines and turbochargers already in service up to the very latest standards of performance and efficiency.



Using the latest digital technology, we enable you to maximize the performance and availability of your Everllence equipment by accessing real-time data analysis, remote support and rapid solutions.

We also offer an extensive range of training courses at PrimeServ ACADEMIES around the world.

Our service does not vary according to location. We know that a vessel may be built in Asia, operated in Europe for ten years and then move to Africa for the next decade.

That does not alter our focus on fast delivery of strategic spare parts, a comprehensive approach, or our tailored Propeller Maintenance Concept.

For more information please visit
www.everllence.com/services

Everllence

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MAN Energy Solutions SE has been renamed to Everllence SE and its products are being rebranded from "MAN" and/or "MAN Energy Solutions" to "Everllence". As this is an ongoing process, any reference to "MAN" and/or "MAN Energy Solutions" is actually a reference to "Everllence".

All data provided in this document is non-binding. This data serves informational purposes only and is not guaranteed in any way. Depending on the subsequent specific individual projects, the relevant data may be subject to changes and will be assessed and determined individually for each project. This will depend on the particular characteristics of each individual project, especially specific site and operational conditions. (1510-0145-05)

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