

BWSC



BWSC • Auxiliary Components

Auxiliary System Components

Supporting operational stability and lifecycle performance





Auxiliary System component Services

Restoring performance and reliability of critical support components

BWSC Panama delivers specialized maintenance, repair, and reconditioning of auxiliary components essential to engine and plant reliability.

Through certified procedures, strict technical control, and advanced workshop capabilities, we restore the performance of critical support systems across marine, industrial, and power generation applications, ensuring reliable operation, improved efficiency, and continued operational stability.



Supporting Reliable Operation of Auxiliary Systems

Service and reconditioning of key components across cooling, pumps, and separators.

Services included to help extend component lifetime:

- 1 Charge Air Coolers (CAC)
- 2 Lube Oil & Jacket Water Coolers
- 3 Fuel & Lube Oil Pumps
- 4 Cooling Water Pumps
- 5 Oil & Fuels Separators
- 6 Industrial Fans & Blowers

Reconditioned components deliver full TBO performance at significantly lower cost than new parts.

Turnaround times from two weeks, reducing downtime and accelerating return to service.

up to
60%
cost savings



Technical Scope of Reconditioning

Cooling water pumps and oil and fuel separators are critical components in maintaining efficient and reliable plant operations. Over time, wear, imbalance, and contamination can significantly reduce their performance, leading to decreased efficiency and potential downtime. Through targeted reconditioning and maintenance, BWSC restores these systems to optimal functionality, ensuring sustained performance, improved reliability, and extended equipment lifespan

1

Industrial Fans & Blowers

Vibration, bearing wear, blade fouling, and airflow reduction impact system stability. Services include bearing overhaul, blade cleaning, dynamic balancing, housing inspection, and airflow performance testing.

2

Charge Air & Liquid Coolers

Fouling, corrosion, tube blockage, and gasket failures reduce thermal efficiency and system performance. BWSC performs chemical or mechanical cleaning, tube repair, gasket renewal, pressure testing, surface restoration, and efficiency verification according to OEM standards.

3

Lube Oil & Jacket Water Coolers

Scaling and corrosion impair heat transfer and sealing integrity. Reconditioning includes cleaning, integrity testing, gasket replacement, surface restoration, and performance verification to maintain optimal cooling efficiency.

4

Fuel & Lube Oil Pumps

Bearing wear, seal leakage, shaft damage, and impeller erosion affect reliability and flow stability. Services include bearing and seal replacement, shaft polishing, impeller restoration, alignment correction, and operational testing.



Restoring Performance of Critical Cooling and Pump Systems

Reconditioning solutions that improve efficiency, reliability, and flow stability

By restoring the performance of critical auxiliary components, BWSC helps improve overall system efficiency, stabilize operation, and reduce the risk of unplanned downtime. Our reconditioning approach extends component lifetime and provides a cost-effective alternative to replacement, supporting reliable and continuous operations.

Key benefits

Performance

- Restoring cooling and separation efficiency
- Improves system performance and operation stability
- Supports consistent engine operations

Reliability

- Reduces risk of component failure and unplanned downtime
- Ensures stable operation under varying load conditions

Cost Efficiency

- Extends component service life
- Reduces need for premature replacement



Why Auxiliary Component Reconditioning Matters

Reconditioning auxiliary components supports reliable operation, improves efficiency, and helps reduce downtime and replacement needs.

Operational Excellence

Operating in the Panama Canal requires precision, responsiveness, and reliable execution. BWSC Panama is structured to support time-critical marine and industrial operations where delays are not an option.

By combining advanced workshop capabilities with rapid on-site and onboard services, we ensure efficient project execution, minimized downtime, and seamless coordination from planning through completion.

BWSC

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