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TALLERES INDUSTRIALES, S.A.

24/7 SHIP REPAIRS AND MARINE SOLUTIONS

MAGAZINE 13th Edition



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STEVEDORE DAMAGES



Stevedore damage to vessels can prove to be very costly and sometimes very complex to deal with, since on most occasions, these incidents have a great impact on the logistics, cargo and expenses, and on top of all, sometimes can end in conflict between charters, owners, and port terminals. In general, the charter is responsible for such damages and should arrange repairs at the best convenient port. Panama is always on the map to perform such repairs due to the know-how experience and logistic coordination that can be achieved in our country.

Talleres has been helping charters around the world to solve the damages to vessels caused by stevedores, which can vary from minor damages, fixtures and fittings, such as cell guides and railings, to quite spectacular damages including, cargo cranes, cargo hold tank tops, and hatch cover structural repairs. Talleres is on call 24/7, ready to keep your vessels moving!



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“RECOGNITION” TALLERES HALL OF FAME

Talleres used to be one of those companies that took the hard work or extra mile for granted and did not formally recognize their employees for their great effort, sacrifice, and professionalism while performing their jobs. But a decade ago we started not only saying thanks but performing a formal, sincere public recognition to our employees for that specific extra mile.

This recognition takes place in the Talleres’ Hall of Fame Auditorium, where managers, supervisors, and workers get together every month to celebrate the great achievements of our employees. This event, if done correctly with feedback and with enough time, can create a positive, productive, and innovative organizational environment.

On our Hall of Fame, we also celebrate the loyalty of our employees. We make and hang on the wall a cartoon of each employee with more than 10 years of service in our company. You will find in our Hall of Fame more than 40 employees with 10 to 50 years of service. These cartoons are done in a very special way, reflecting the soul, likes, dislikes, humor, and strength of that employee.

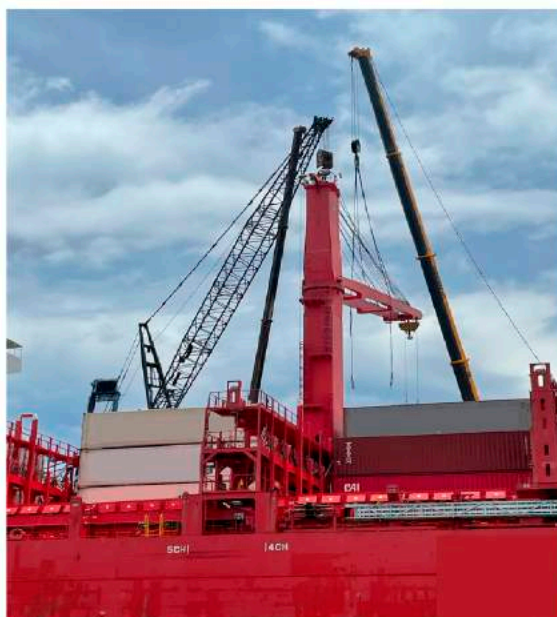
In this not-so-sexy industry, we need passionate, happy, and productive employees. Recognizing their actions, behaviors, and accomplishments makes Talleres a better place to belong to.

MAJOR RIGGING MANEUVERING ON CARGO CRANE REPAIRS



A 50,000 DWT Container vessel suffered a major damage on its deck crane when a shore gantry crane heavily struck its upper structure during cargo operations.

After initial inspections, structural damages were found on its top tower sheaves, sheaves support and railings. The vessel needed to perform an immediate temporary repair to continue its voyage and Talleres was called to assist. Talleres' engineers boarded the vessel to secure the crane structure and wires, to complete its voyage and unloading of cargo. Simultaneously we prepared a repair plan for its permanent repair on its return trip.





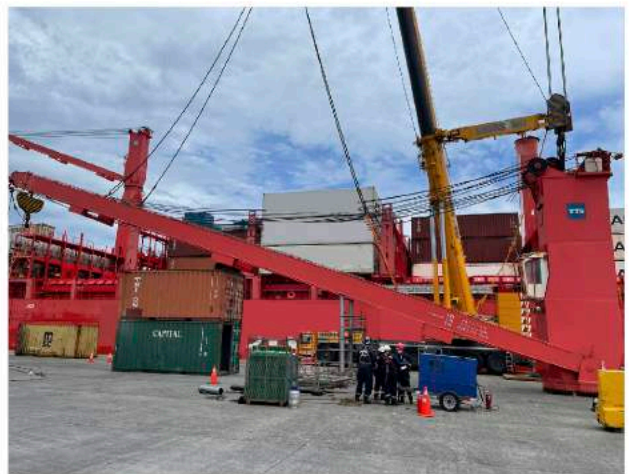
Once the vessel was back in Panama, we started the trickiest part of this operation which was the removal of the complete crane at lay berth, using two heavy lift shore cranes.

This phase of the job lasted 36 hours in which our personnel worked 24/7 with the highest standards of safety. The crane was secured with shore cranes, which worked together and in coordination to distribute the load. Our engineers, fitters and mechanics secured all the wires and released the bolts and nuts from the crane pedestal to dismantle the crane. The operation was successfully performed, and the crane was secured on lay berth ready for the next phase. This story will be continued...

Once Talleres managed to secure the non-operational crane under the guidance of class and insurance, the vessel was allowed to complete its route. Immediately after vessel departure, Talleres got in contact with the makers to validate the repair plan and order the necessary spare parts for permanent repairs.



Damages on top tower sheaves, sheaves support





ISO 45001 is an ISO standard for management systems of occupational health and safety (OH&S). The goal of ISO 45001 is the reduction of occupational injuries and diseases, including promoting and protecting physical and mental health.

WHO IS WHO IN OUR TEAM



Kassem O. Dabaje
Hullwiper Division Manager
Project Manager onboard
Expertise: ROV, electrical,
rewinding, mechanical



Leonard Jenkins
ROV Supervisor
ROV Operator
Maintenance Technician



Gilberto Campbell
ROV Operator
Maintenance Technician



Miguel Mendoza
ROV Operator
Maintenance Technician



Josimar Avila
ROV Operator
Tender



Jose Fuentes
ROV Operator
Maintenance Technician



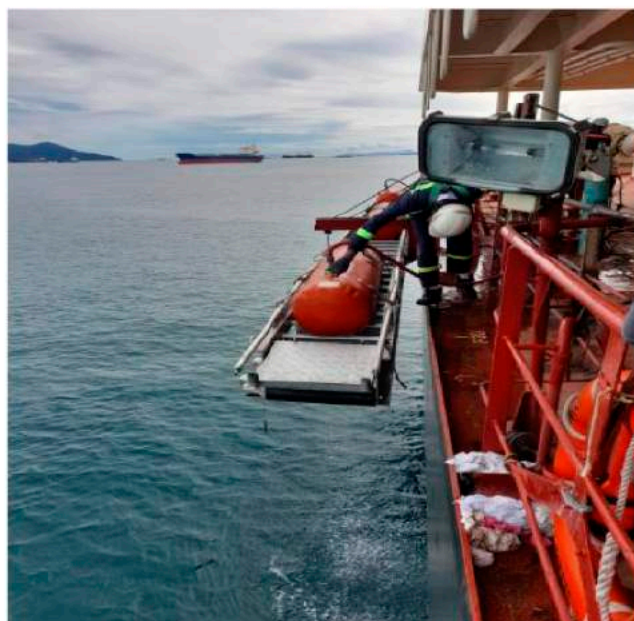
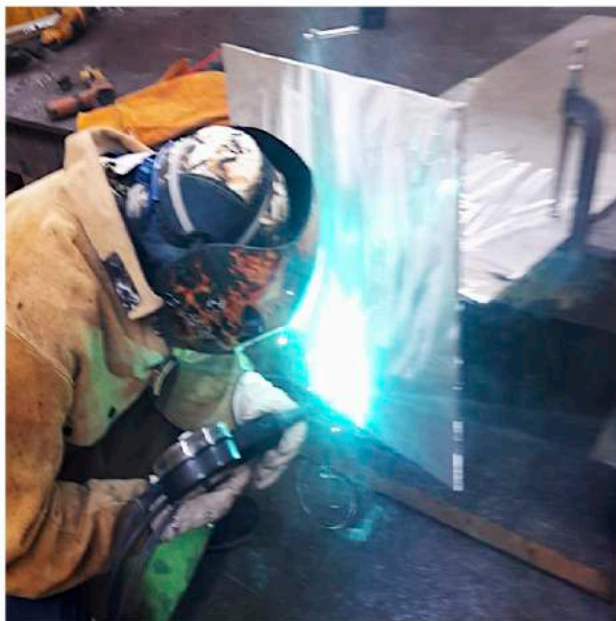
CERTIFIED CLASS APPROVED GANGWAYS REPAIRS



Talleres has been performing jobs from minor fractures to major structural damages on vessels' gangways. These repairs are performed in-situ onboard and at our workshop when major structural repairs are needed.

Talleres, can provide from class approved welders and procedures, to all logistical resources, including a critical one, crane barges to load and remove them from their positions on the ship.

We also have in stock aluminum materials, spares gangways, and as part of the process we perform quality control checks such as NDT and UTM to the damaged areas or new repair welds. Finally, we are equipped to perform load tests of the repaired gangways in our workshops and onboard after final installation and commissioning



BACK IN THE AIR !



**ATTENDING NOW IN
MOST LATIN AMERICAN
COUNTRIES**

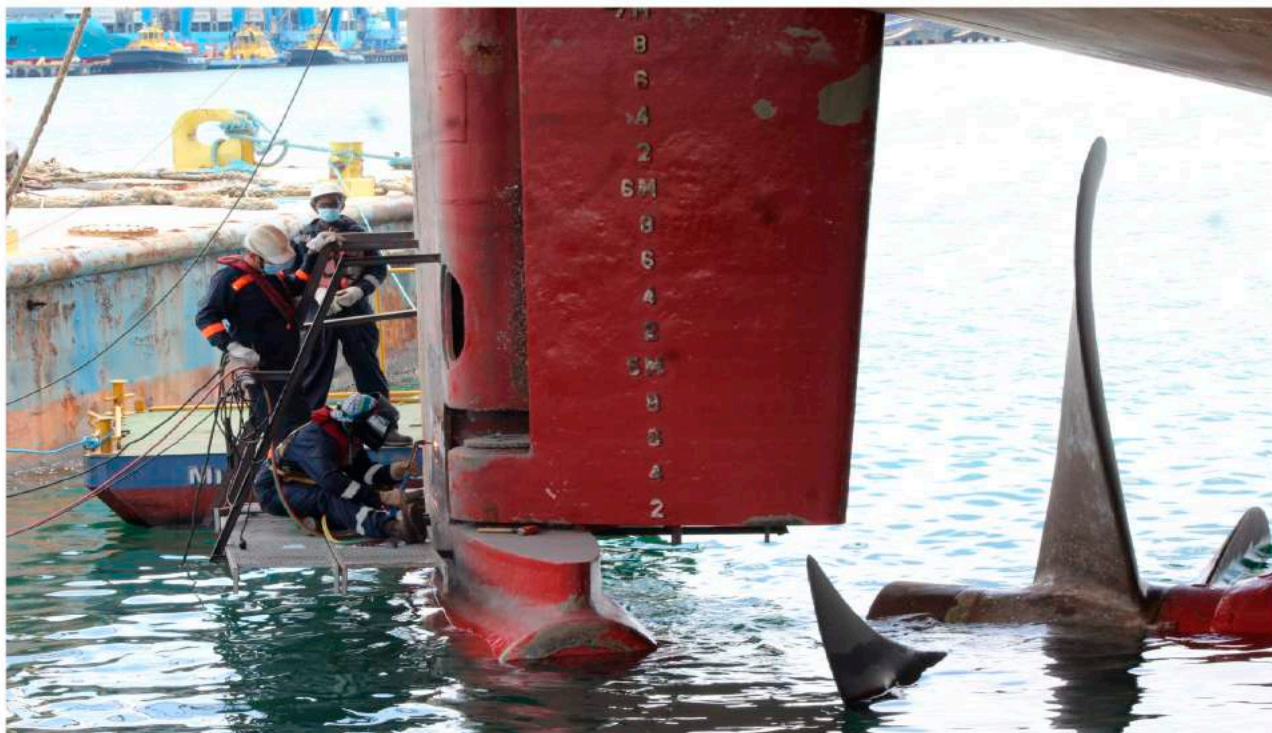


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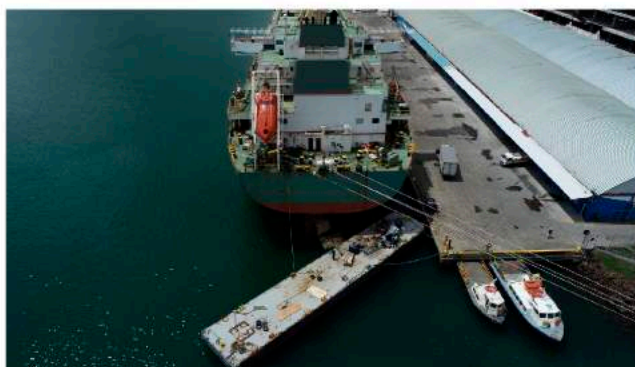
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DRY REPAIRS OF A RUDDER JUST 300 MM ABOVE THE WATERLINE



At Talleres Industriales, rudder repairs have become one of our expertise and very common jobs in our portfolio. Depending on the vessel's draft, rudder repairs will be performed above, below or in between the waterline. Many of our divisions are always involved to get a piece of the action when we are approached with a rudder defect or damage.



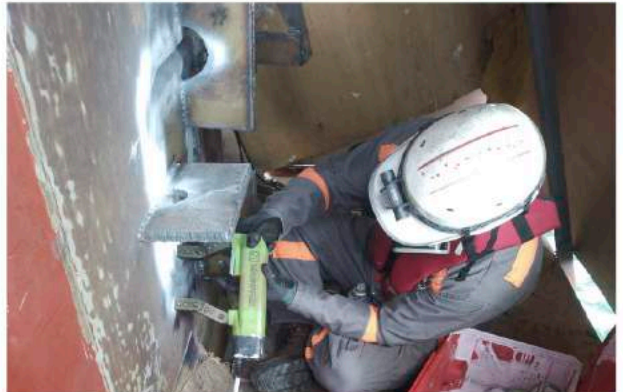
On this new challenge, our diving team discovered on a 40,000 DWT Bulk carrier some fatigue cracks on both sides of the rudder's shell plate and connecting castings area.

This vessel needed to perform repairs in urgent basis to continue its trading and discharge of its cargo. Temporary underwater repairs were done by wet welding the fractures and installing external reinforcement brackets to unload its cargo. On its way back to Panama on ballast condition, the ship's managers and our engineering department produced a repair plan to let them trade until its next dry dock.

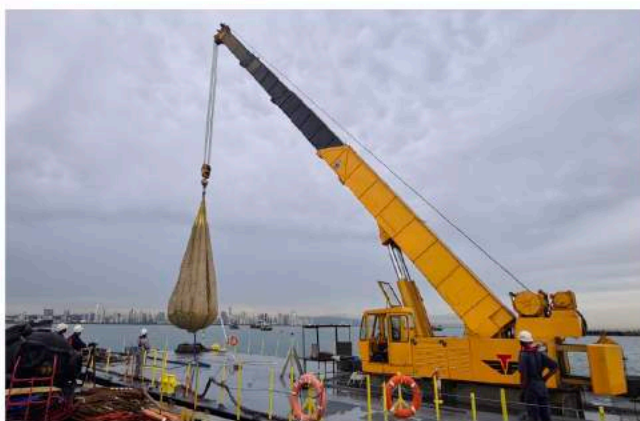
Talleres' repair plan was approved by class. All the logistics and the equipment was arranged to be ready as soon as the vessel arrived back to Cristobal. The vessel arrived at the repair berth and started trimming on arrival to allow engineers to get down to the rudder to start the job with the use hanging scaffolding and the support of a deck barge.

The rudder accesses were opened and immediately the gauging process of cracks started, as well as the cropping of the damaged shell on the opposite side of the rudder. The NDT technicians remained on site during the repairs to perform ultrasonic test on all rounds of welds, as well as MPI tests on the plates, to detect invisible cracks throughout the complete process, along with the class surveyor. TISA welders successfully passed all the inspections despite extremely difficult welding conditions and access.

"The welding repairs appear as if they were done by an automated robot" said one of the ship's crewmen, after the final presentation. Talleres is always looking for a long business relationship with our customers, by providing the best skilled, trained, and qualified labor, followed by our experience, and our engineering department, to support with all necessary resources in hand, to deliver a high quality and safe job according to our ISO standards.



NEW CRANE BARGE AVAILABLE AT BALBOA ANCHORAGE



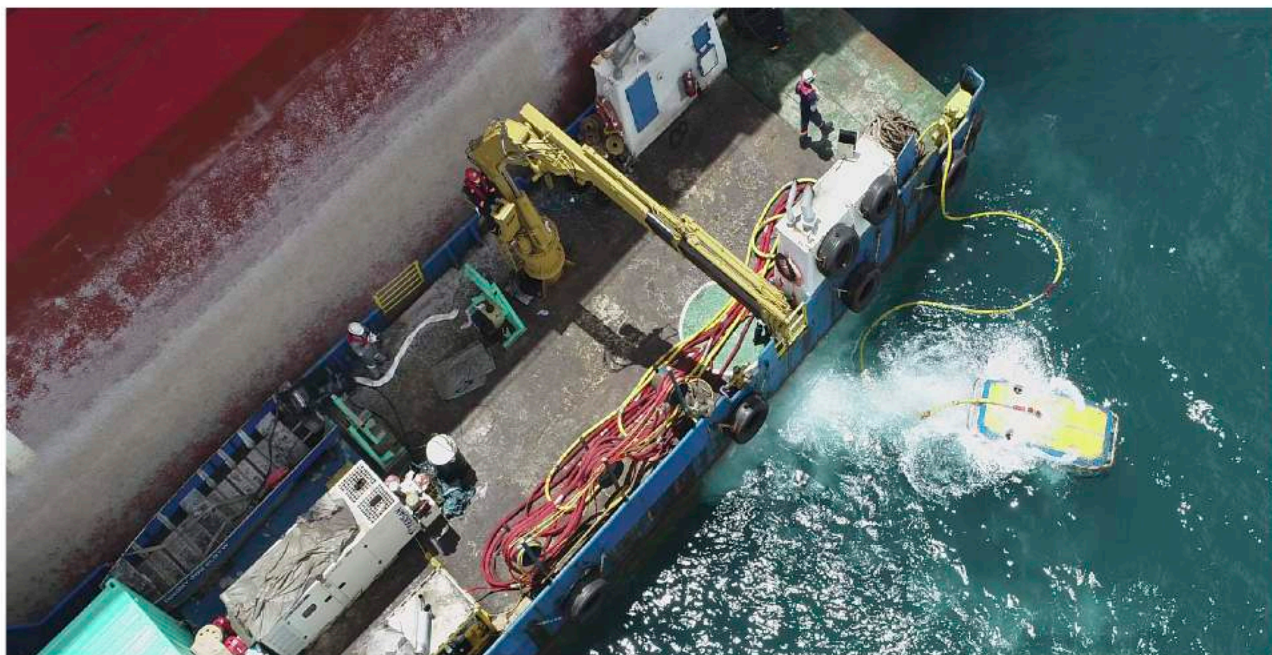
We have added to our fleet a new crane barge for the Balboa Anchorage. The 80-ton crane barge Camila is now available along with our 23-ton crane barge Mr. Husband, and our strategic partner's 120-ton crane barge, which is now available at Cristobal's inner anchorage.

OUT OF THE BOX SOLUTION ART



Talleres is always engineering ways around complex repairs or those that the general industry would think is a must-go-to-dry-dock situation. Give us your headache and we will find another approach to reach a solution.

ROV GREEN TECHNOLOGY FOR UNDERWATER SHIP CLEANING



We are constantly improving our methods to meet our customers' requirements and bring cost-efficient solutions to the marine industry.

Our new ROV technology not only offers cost-efficient but also eco-friendly hull cleaning services for all kinds of vessels calling at Panama. This ROV aims to protect the spread of invasive marine species through the ships' hulls. The advantage, compared to common methods, is that it uses adjustable seawater jets under variable pressure as the means of cleaning, instead of brushes or abrasives, to reduce the risk of damaging the anti-fouling coatings.

The technology also eliminates the use of divers, posing no threat to human life. It can be used through day and night, nonstop around the clock, as well as in most weather conditions, without affecting cargo operations.

As soon as we receive an inquiry from our customers, we prepare an offer and of course explain the difference between both types of cleaning, since we offer both methods. Once approved, we start the logistical process of assigning our team or teams, start filling up all the documentation and request to the Panamanian Authorities the permit to perform the Underwater Operation.





Our team includes one supervisor, two operators, and one tender per shift. We are always ready to perform on-site maintenance and/or repairs in case needed. Once the cleaning job is completed, we deliver the pictures to the Master so he can be sure that the job was performed at satisfaction and then we send our Work Order brief report.



Within 2 days of completion, we send our customer a detailed technical report along with all supporting documents such as Work Order, UW Permit to Work and the link to pictures and videos (if requested).

TALLERES' CODE OF ETHICS



**Starts
with Solid
Foundation
"Our Values"**

