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TALLERES INDUSTRIALES, S.A.

24/7 SHIP REPAIRS AND MARINE SOLUTIONS

MAGAZINE 6th Edition



STRATEGIC ALLIANCE



NEW STS DIVISION

MAIN FEATURES

NEW SHIP-TO-SHIP TRANSFER DIVISION

Talleres partners with Teekay to provide STS services in Panama

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COLLISION AT CRISTOBAL OUTER ANCHORAGE DURING CHRISTMAS HOLIDAYS

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MAIN ENGINE REPAIRS

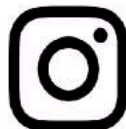


Talleres has long experience in overhauling main and auxiliary engines onboard vessels in the Panama Canal area. Our marine technicians are highly skilled and capable of overhauling any kind of diesel engines in the shortest time possible.

Being a hospital emergency room for ships station at both sides of the Panama Canal, combined with more than 50 years of experience in the marine industry plus having a continuous investment program in new technology, Talleres can guarantee high quality results. At Talleres, every project is executed with the owner as a partner and not only as client.



www.talleresindustriales.com



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talleresindustriales -shiprepairs



TALLERES KEEPS DIVERSIFYING

Talleres has a big responsibility towards all its stakeholders. Creating and maintaining employment opportunities, providing safe, fast, and quality services to our clients, taking care of our environment, and promoting values and ethical behavior in our society, are just a few of them. To keep these goals, we need to have a healthy company which can adapt to the constant changes in the market and our way of life. Our diversification strategy has allowed Talleres to increase its revenues, infrastructure, and employment.

Since our beginnings we have been constantly diversifying, investing to upgrade our facilities, modernizing our equipment, and adding new qualified staff to thrive in the incredibly challenging ship repair industry. In the early years we were only providing welding, mechanical, machining, painting, and electrical services. Due to the lack of a reliable launch services to take our technicians onboard at anchorages, we decided to invest in our floating equipment. We started 40 years ago with a small steel boat, the TISA I, which is no longer in service and have been replaced by newer ones. Since the last decade, we have extended to bigger supply boats and furthermore opened a deck barge rental company, Canal Barges & Cranes.

On that same token, 30 years ago we branched out to commercial underwater services. Other divisions that we have been involved with in the last decade are the lifeboat division, the NDT and UTM division, the drone division, the ROV underwater division, pollution control division, and the tank cleaning division. Our latest diversification strategy, which just opened this year, is the Ship-to-Ship transfer division.

10 years ago, we also decided to spread our activities by expanding into new markets which could benefit from our current business model, such as power plants and the Copper Mine Industry. As a result of the current pandemic market conditions, we will keep looking for new opportunities and exploring the potential of the green markets and processes, to help our environment. Despite the diversification, Talleres will continue to focus on its core business, Ship Repairs, and will be always looking forward to participating in the upcoming bid of the Balboa Shipyard.

NEW SHIP-TO-SHIP TRANSFER DIVISION



Talleres Industriales, S.A. always improving and innovating, has recently opened its new STS division together with the approval licence from the Panama Maritime Authority, to perform ship to ship lightering operations at Cristobal and Balboa anchorage. We have two STS approved support boats fully equipped and audited to support these operations. Talleres is equipped with new, state of the art STS gears, Japanese made Yokohama and Seaflex genuine gears.

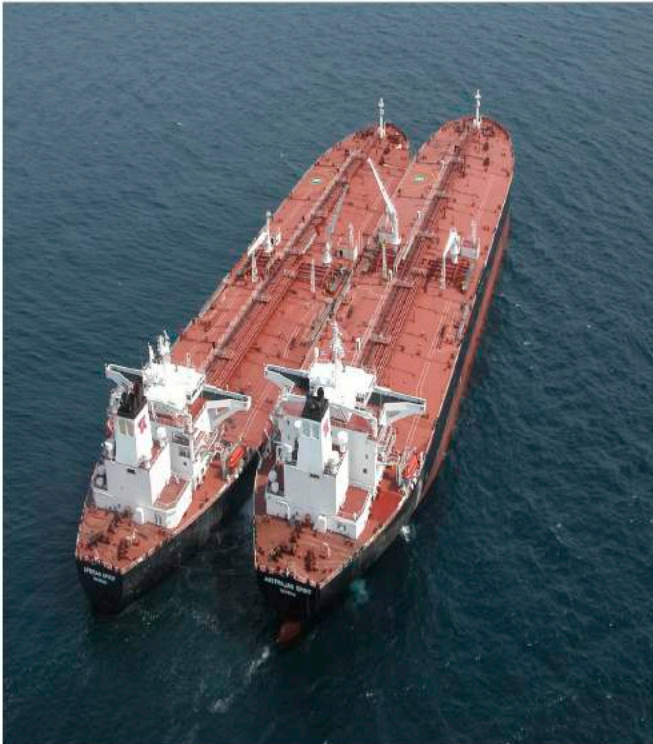
We have teamed up with Teekay Marine Solutions, a company that shares our values and has the expertise on this field, to offer this new service on a 24/7 basis. Between both companies we have sufficient gears to perform two STS operations simultaneously. Being more than half-a-century old offering ship repairs and marine solutions to more than 1200 ship managers a year, we are sure that this new venture will exceed our client expectations and will make Panama the best and safest place to perform STS operations in the Americas.

From the words of our new partners: Teekay Marine Solutions is an ISO 9001, 14001, and 45001 certified Ship to Ship transfer service provider offering oil, LPG, and product STS transfers on the East and West coast of Panama. Being an experienced and reputed owner and operator of an oil tanker fleet, we also offer a one-step solution for all our customers' requirements. Our head office is based in Houston and comprises a highly professional team to support voyage and lightering services, delivered safely and efficiently.





All Teekay employees live by their Organizational Values and Operational Leadership, central to our goal to be the most trusted service provider.



We are prepared and ready for mobilization 24/7 and offer decisive response plans to meet your unique requirements. Our turn-key ship-to-ship solutions support you from concept to implementation.

Our turn-key, comprehensive, and cost-effective service package includes:

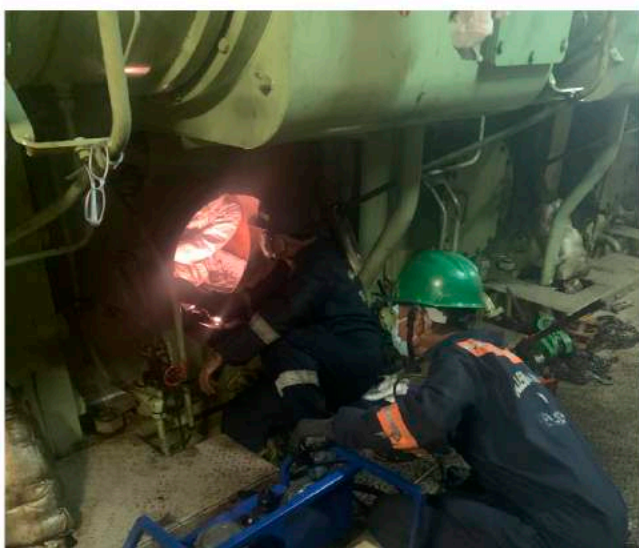
- Pre-screening of vessels for suitability and compatibility
- Specialized and highly trained Mooring Masters (POAC)
- Full-service lightering integration with our Suezmax, Aframax, and LR2 fleets
- State-of-the-art equipment including fenders, hoses, and support craft
- Due diligence, weather forecasting, breakbulk logistics, and mooring analysis
- Pre-operation risk assessment and joint plan of operations for vessel owners
- Total compliance with international and local regulations.

REMOVAL OF SEIZED MAIN ENGINE CYLINDER LINER



It is quite common that our customers request professional assistance when a Main Engine Cylinder Liner gets seized in the middle of a routine overhaul. Talleres has assisted numerous cases under similar stressful situations for our customers.

A common way to remove a seized cylinder liner is to position a prebuilt push up structure and apply hydraulic pressure at the bottom of the cylinder liner with one of our heavy-duty cylinder jack. Once the liner is released from the engine block, it can be easily removed with the engine room crane and continue the job as usual. It is not always as easy as it sounds, but we always find the pathway to success.



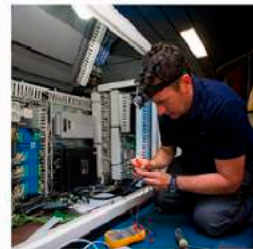
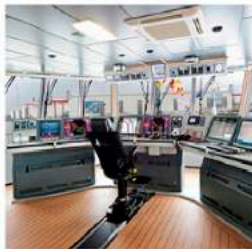


Worldwide Quality Maritime Service Network

Established in 1963 by leading marine service suppliers



International Ship Engineering Service Association



INTERNATIONAL SHIP ENGINEERING SERVICE ASSOCIATION

ISES, the International Ship Engineering Service Association was founded in 1963, providing repairs, service and equipment to the Merchant Marine and Offshore Industries in all major ports worldwide.

As a group, the objective of ISES is to form an independent, high quality worldwide network of members, to provide electrical, mechanical, electronic, and specialized services to the marine industry.

Talleres Industriales is a proud member of the association since 2008 in the Republic of Panama; our CEO Lino Arosemena was President from 2012 to 2016 and is currently a member of the board.

All members of the ISES Association must have high quality standards and be approved by the main manufacturers and classification societies.

ISES members have been supporting the shipping industry for close to 60 years providing quality repairs and marine solutions through a strong network, worldwide.



www.talleresindustriales.com

Follow us



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WHO IS WHO IN OUR TEAM



Brian Castrillon
Project Manager
In charge of major structural projects



Jose Morales
Project Manager
In charge of major structural projects

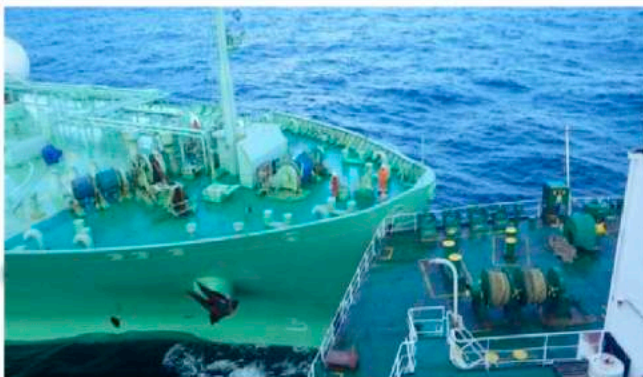


Alberto Obando
Diving Supervisor
Class Approved wet welder
Expertise: underwater inspection, hull cleaning, rudder and propeller repairs, wet welding



Abdul Aparicio
Diving Supervisor
Class Approved wet welder
Expertise: underwater inspection, hull cleaning, rudder and propeller repairs, wet welding

STRUCTURAL REPAIRS TO A POST PANAMAX LPG TANKER DURING CHRISTMAS HOLIDAYS

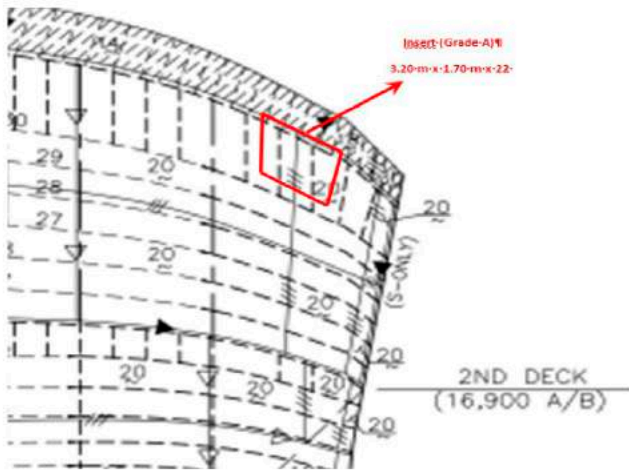


During the 2020 end of the year holiday season, we were contacted by a ship manager in Singapore requesting urgent assistance for attendance of one of his Post Panamax LPG tankers which had just suffered a collision while she lay anchored off in Cristobal. A 1.5m rupture on the bow, just below the starboard side forecastle had to urgently repaired afloat.

After inspection with the insurance surveyor and class society, it was proposed to perform permanent repairs by fitting and welding an insert of 3380 x 1560 x 22 mm and renewal of all stiffeners and brackets in the way of the damage.

The most complex stage of this project was the hoisting and rigging the shell plate to fit it in position at anchorage without a floating crane.





With the help of the ship mooring system and the placement of a pair of chain hoist in a strategic position, we were able to fit the plate in the exact position.

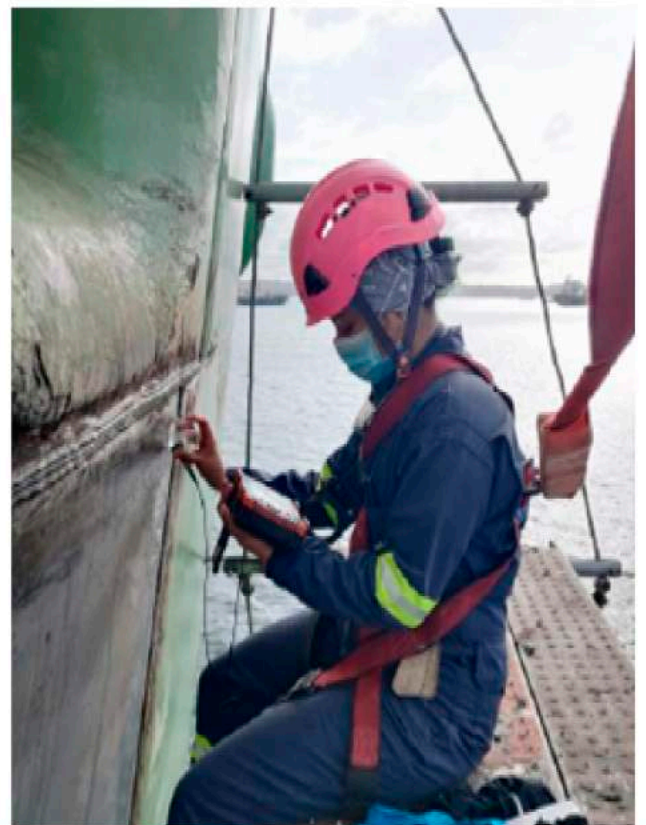
Hanging scaffolding was installed to weld from the outside of the hull. Main hull plate and internal structures were welded around the clock, during rough seas, to avoid delays.

Upon completing production welding, we performed all requested non-destructive tests, including ultrasonic check, complying with all requirements of the classification society.





Once again, Talleres business model as a "hospital emergency room" for ships was put to test with positive results. The combination of a Pandemic, Holiday season, anchorage, and adverse weather conditions, did not stop our team of professionals to deliver and achieve our customer's expectations.





PEOPLE WHO POSITIVELY IMPACTED TALLERES

After 52 years in business, there is no doubt that certain people have had a positive impact in the success and growth of our company. These include past and current employees, their family members, local and international agents, strategic partners, ship managers, suppliers, community leaders, competitors, and market leaders. Even though it would be unfair not to mention all of them, it will not be possible, but we will try to make them know, in many ways, how we feel about them. In this new segment of our magazine, we will mention some of these significant individuals, recognizing the importance that they have brought to our organization, and to our growth and existence.

Let us start first with the person who opened the international market for Talleres in the early 90s, our Greek agent Mr. Nikolas Drakontaidis, now close to 30 years of representing our company in the Greek market. At the time of the fax machine, and during our first trip to Greece back in 1995, we met this hyperactive, extrovert, humble, and energetic captain, whose character, and desire to meet his clients' expectations has always been an example to follow.

Nick has encouraged and pushed us towards success by delivering fast, high quality and efficient services to the Greek market. Nick has had a great chemistry with Talleres and has helped us build our brand in Greece.

Two years ago, we had the pleasure to have Nick in Panama for our half-century celebration. For all the ex-employees and current ones that know them, it was very emotional to share this special moment. Ship Repair is all about people who positively impact others. Once again, we thank Nick for being part of our journey and wish him all the success in life.

CLEANING OF HEAVY FUEL OIL TANKS AT CRISTOBAL

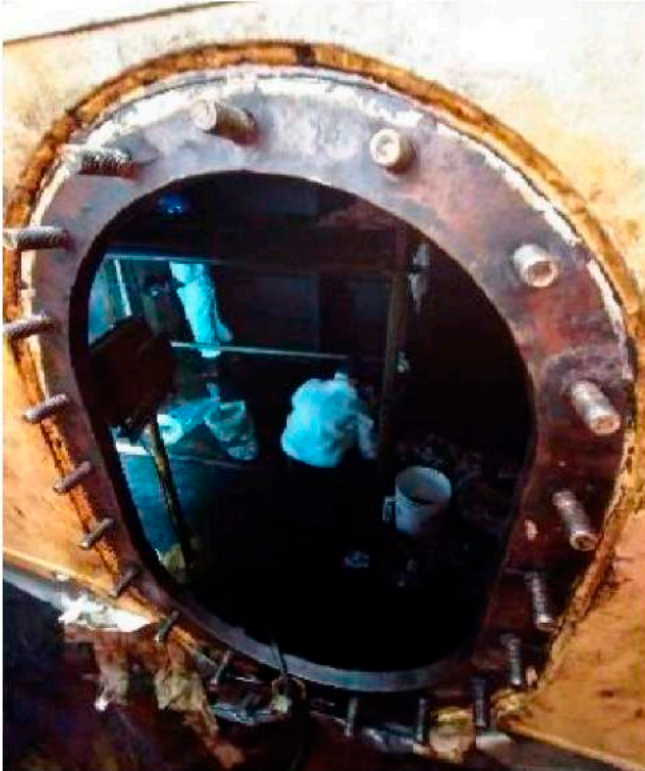


In December 2020, we were contracted by a floating powerplant managing company to assist on the cleaning of five fuel oil tanks located onboard the barge ESPERANZA. The tanks had product internally and needed to be pumped empty and cleaned gas-free, for safe mobilization plans of the barge.

Talleres Industriales' specialized tank cleaning division organized this high demanding project with the highest safety standards at all times.

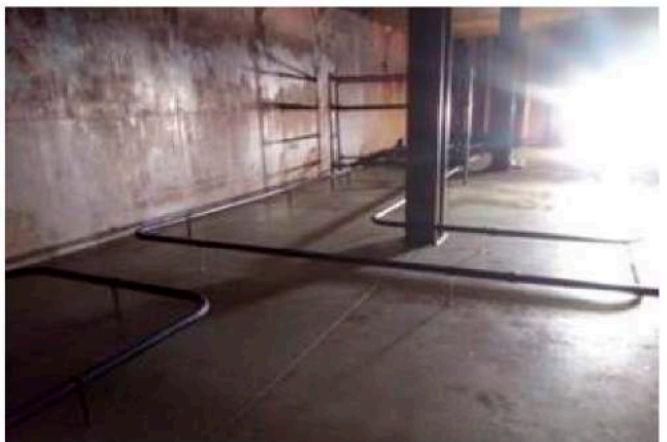


The tanks involved were the DAY HFO, BUFFER HFO, COLLECTION, SETTLING, and SLUDGE. We made the decision to start with the HFO tanks, then proceed with the three remaining sludge tanks. The procedure was to pump the remaining HFO and sludge contents of each tank, to a tanker truck stationed on the pier by the barge.

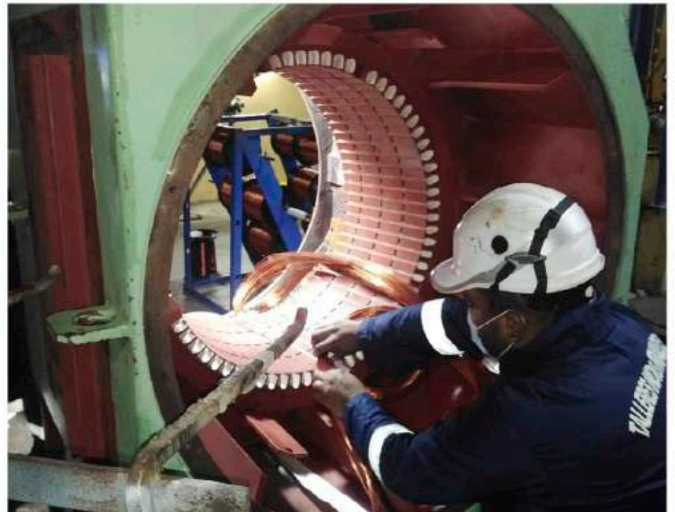
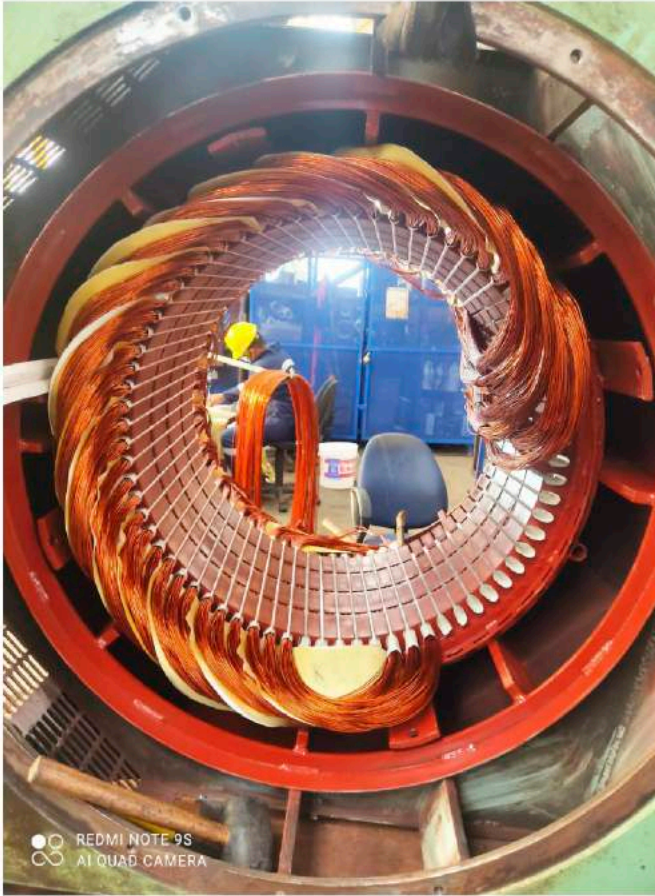


The final tally of the bunker and sludge pumped was at 60,000 gallons.

After the pumping operation was completed, we entered the cleaning phase of the project. This involved skilled workers to manually clean in a confined space environment. Proper cleaning materials and equipment were used, and the tanks were professionally cleaned to the requested gas-free state. Talleres Industriales has the experience, and the certificates to undertake this type of project 24/7 at the Panama Canal.



URGENT REWINDING OF TWO 750KVA GENERATORS SIMULTANEOUSLY



Talleres Industriales once again proves its efficiency to the maximum. Rewinding not one but two 750kVA generators working 24/7 while vessel stood by at Cristobal outer anchorage.

TISA performed the whole package, from the initial assessment onboard, land and sea transportation, repairs in our workshop, and further installation and commissioning.

We were able to mitigate any delay to our customers and removed the deficiencies onboard, allowing the ship to continue with its voyage.



OUR SAFETY COMES FIRST!!!



***"FAST,
FOCUSED,
SAFE,
EFFICIENT"***

WE ARE COMMITTED TO PROMOTING SAFETY, HEALTH AT WORK, PROTECTION OF THE ENVIRONMENT, AND QUALITY OF OUR SERVICES.