



**MS**  
MAGAZINE

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TRANSFER AT SEA**

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**TALLERES, A  
MULTIGENERATIONAL COMPANY**

We know that the mix of professionals of different generations promotes a working environment where experience and innovation merge to create value for all our stakeholders.

By mixing different age groups in the workplace, we can bring different perspectives to bear on solving workplace issues.

The spirit of innovation comes as a result of experience and knowledge together with new ideas and methods in order to create value. All of us at Talleres build a great company with just the correct mix to be one of the most recognized afloat ship repair companies in the world.



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talleres industriales



04  
QUALITY EDUCATION



08  
DECENT WORK AND  
ECONOMIC GROWTH



# LEGACY AND MENTORING

16  
PEACE, JUSTICE AND  
STRONG INSTITUTIONS



17  
PARTNERSHIPS  
FOR THE GOALS




Legacy and mentoring are two important words within the business world because they represent the essence of what we call a Leader, which is the person who inspires others to live and work for a strong purpose.

Our founder, Mr Rafael Arosemena is that person whose legacy is represented by his dedication to service and generosity towards our local community, to promote the importance of education in everyone's life; and to respect and always live with core values.

At the same time, he has become our mentor by sharing his broad knowledge, vast business experience, and the capacity to visualize future perspectives and world trends that allow us to learn from the past, be alert in the present, and project the future.

The example of our founder teaches us that Leadership is not necessarily a hierarchical position; it is a way to lead others to achieve goals that they would have never imagined.

Thank you, Rafael, for being with us, for sharing with us, for making us better people to serve in this world.

## 38,000 TONS SOYBEAN SHIP-TO-SHIP BULK CARGO TRANSFER AT SEA



Challenges at work are routinary at Talleres Industriales (TISA). Recently we were confronted with a job that was not only a challenge, but it required us to think outside of the box to satisfy the needs of a client. The job was to perform a ship-to-ship of 38,000 tons bulk transfer of the entire soybean load from a vessel that got serious structural damage to a second Panamax bulk carrier.







The complex part was to undertake this transfer at sea in the Panama Canal Balboa anchorage. After numerous meetings between management and the client, it was decided the method to transfer the cargo via two large-capacity deck barges with tugs.



After this was accomplished, an experienced team was organized to set up the logistics and equipment for the job. From day one of the operations, the team knew an additional uncontrollable challenge would be the weather.



The first task required that the barges be prepared for the job by adding welded-in supports for containment walls four feet high. The second task was to have proper fendering and a method to tie up the barges alongside the vessels.



Large heavy-duty tarps were fabricated to keep the unaffected soybeans protected from the rain. The deployment of the tarps was difficult, but the team was able to cover the cargo successfully when needed.







Pay loaders were also used to spread the grains evenly on the deck of the barges. This was the method used to load the bulk cargo with the grabs onto a well-distributed cargo deck on the barge for a smooth transfer to the receiving vessel.



The transfer of the soybeans was done within the time frame given by cargo owners and with all procedures to avoid any damages. With a well-orchestrated job, and with good logistical planning, the TISA team was able to give the client a satisfactory result on the bulk cargo transfer phase of the job. We are always willing to provide creative and effective solutions for our clients.



● SHIP REPAIRS & MARINE SOLUTIONS

RENOWNED  
FILMS

16.07.2023

www.talleresindustriales.com



Featuring Talleres Industriales  
from Panama July 16th.



SEASON 3

The  
Weather  
Channel

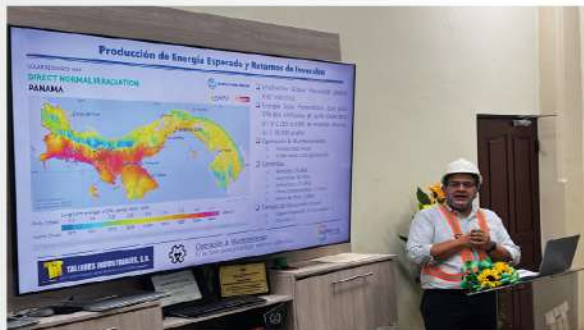
DEEP WATER SALVAGE



07  
AFFORDABLE  
AND CLEAN ENERGY

# TALLERES INDUSTRIALES IS GOING SOLAR-POWERED

11  
SUSTAINABLE CITIES  
AND COMMUNITIES



Talleres' vision and focus for the future will be to reduce the negative impact to the environment on all our activities which we perform during our services and this action aligns with our new target which is to obtain ISO 14001 by the end of the year.

Going solar reconfirms our vision as a company as well as our corporate social responsibility (CSR) values and commitment. By installing 526 photovoltaic (PV) panels to achieve 289.3 kWp of power in our main workshop in Colon, we demonstrate to all our stakeholders that we take sustainability and environmental protection seriously.







Going solar is not the only action Talleres has taken to go green. Since the last few years, we have been performing Underwater hull Cleaning with ROV that collects the biofouling to avoid cross contamination of our oceans. Also, we have been performing pollution control operations throughout the whole country.



Lastly, we are assisting our clients worldwide with the installation and commissioning of Ballast Water Management Systems as well as Scrubbers systems.



**Impacto Ambiental**

Según la Secretaría Nacional de Energía y de acuerdo con las consideraciones al Factor de Emisión del Sistema Interconectado Nacional para proyectos de energía no convencional MDL es de  $FE = 0.4949 \text{ tCO}_2/\text{MWh}$

Basado en la producción de Energía @ 25 años en 8,668.6 kWh. Incorporando la degradación del sistema se presentará un reducción de 4,250 tCO<sub>2</sub>. Lo cual es el equivalente a:

- ✓ El consumo de energía de 2,400 casas de 300 kWh/mes a lo largo de 25 años.
- ✓ Sacar de circulación 1000 vehículos a gasolina a lo largo de 25 años
- ✓ 480,000 galones de gasolina consumidos a lo largo de 25 años.
- ✓ 7,000 árboles sembrados a lo largo de 25 años
- ✓ 20.6 millones de teléfonos celulares cargados al año.



Talleres Industriales S.A. | Establecimiento las Necesidades SMI S.A.S. S. | A través de la certificación eléctrica ISO 9001:2015 y la ISO 14001:2015

Going solar will allow Talleres to generate our own clean and efficient electricity onsite, rather than relying on fossil fuels. Going solar will also provide many more opportunities to connect with all our stakeholders that share our same vision.



We will publish our carbon savings newsworthy updates monthly to keep track and keep improving our actions for our environment.





**TALLERES INDUSTRIALES, S.A.**

24/7 SHIP REPAIRS AND MARINE SOLUTIONS

[www.talleresindustriales.com](http://www.talleresindustriales.com)

# BIOFOULING HAS ITS OWN PREDATOR

[www.hullwiper.co](http://www.hullwiper.co)



Power meets agility with HullWiper's diverless underwater hull cleaning technology. Adjustable seawater jets and brush-free technology means no damage to vessel anti-fouling coatings or the ocean, a lighter hull for fuel efficiency and reduced CO2 emissions. HullWiper collects fouling onboard through filters to reduce pollution and contamination to the ocean by invasive marine species.



## SAVING SHIPS IS OUR NEW TRADEMARK!



By the end of march, we received a special call informing us that one ship caught fire in its accommodation. Within 4 days and after receiving confirmation, a team of 5 specialists flew to El Salvador, Central America to perform an initial inspection of the damage, define the Work Scope, and prepare the ship for repairs.

It was agreed that for a more efficient repair, the ship had to sail to Panama where we could get a berth to speed up the repairs. Our team managed to prepare the ship for sailing in around 2 weeks and one of our electricians sailed with the ship from El Salvador to Panama.







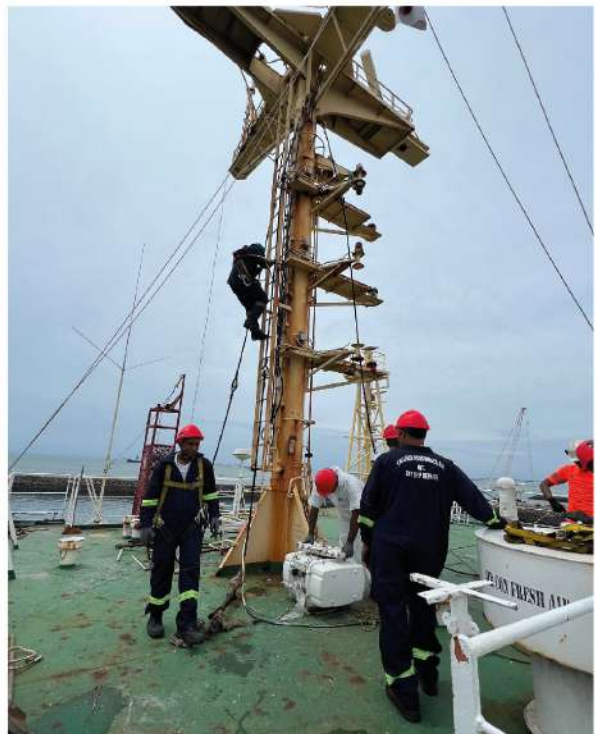
This job represented a new challenge, different from the previous fire repairs as this one was mainly on the accommodation and not in the Engine Room.



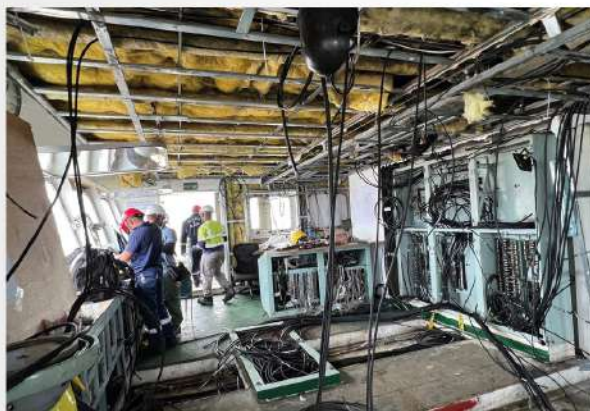
On average we had approximately 40 people working on the electrical and other repairs onboard. We also had a around 20 team members who were working on the insulation and furniture jobs.



There were two main jobs on this project. First, and as usual, the electrical repairs including the renewal of all bridge equipment. Second, all furniture repairs on the accommodation.



We first started by making an inventory of the required cables (prior to vessel arrival) and all the damaged equipment that needed to be ordered.







Once the vessel berthed, we started the removal of all damaged cables and within 1 week the new cables arrived and we started laying them up from end to end.



Each and every system was tested together with the superintendents, ensuring proper working. All jobs were explained to class surveyor and all certificates were handed ensuring class approved material which were used throughout the repairs.



We were also responsible for the interconnections of new and old cables via junction boxes and giving support to different maker's representatives.



On June 21st, the sea trial was completed with satisfactory results and the ship was then able to continue its voyage and deliver its cargo.



# OUTSTANDING PARTICIPATION BY TALLERES INDUSTRIALES IN THE 3RD REGIONAL DISASTER RESPONSE DRILL 2023



Talleres Industriales S.A. (TISA) Pollution Control Division participated in the 3rd Regional Simulation of Disaster Response, in coordination with the Joint Task and Multinational Teams.

On June 14th, with the presence of observers from the United States, Canada, Mexico, Argentina, Ecuador, Brazil, Israel, Peru, Haiti, and Japan, TISA demonstrated its response and coordination mechanisms to a simulated oil spill at a local port.







For the first time in the Republic of Panama, there was the opportunity to carry out coordinated actions with the other oil spill response organizations (OSRO), demonstrating a joint capacity to deal with a Tier 2 spill. This was considered a complete success and was commended by international observers.



The location of the drill was Bunkering Pier 7 at Panama Ports Company in Balboa. The rupture of a seaside pipeline was simulated, which then proceeded with a call to action for all OSRO companies by the Panama Marine Authority (AMP). Upon arrival of the TISA team to the spill site, we immediately participated in the deployment of containment booms to prevent the closure of the Panama Canal, and to protect the ships in transit.



We then proceeded with the recovery of the spilled oil with skimmers, followed by the cleaning of the hull of a stained vessel at the pier. A TISA Pollution Control Supervisor had an active presence at the Scene Command Center and participated in the operational coordination of the placement of the equipment and resources of all the OSRO companies onsite.

Our Pollution Control Division response team demonstrated our skills, discipline, and knowledge while participating enthusiastically with other OSRO companies in the drill. We showcased our high level of professionalism and teamwork capabilities. This was widely recognized by the AMP and other OSRO companies. It was a proud day at Talleres Industriales.





We always think differently, unconventionally and from a fresh perspective to provide brilliant solutions to our clients.

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