Industrial Motors

Commercial & Appliance Motors

Automation

Digital & Systems

Energy

Transmission & Distribution

Coatings

SUSTAINABLE GRAPHENE-BASED MARINE COATINGS

Reduce fuel consumption and protect the environment with **GIT's biocide-free** hard foul release hull and propeller coatings while **decarbonizing your fleet**.





Driving efficiency and sustainability

al daliah futik



Environmentally friendly sustainable solution

Wen

Enhance vessel performance with sustainable graphene-based marine coatings

Ultra-low VOC (3%)*;

- Does not leach biocides, coppers or silicone oils;
- Safer for the applicator.

*VOC stands for volatile organic compounds.



XGIT-FUEL

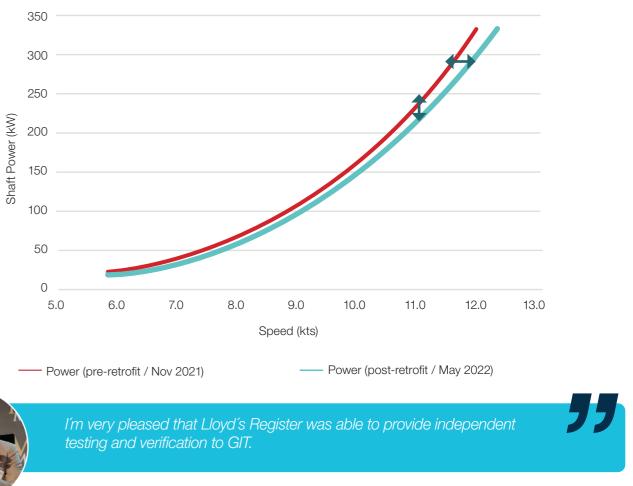
BOOST FUEL SAVINGS. REDUCE EMISSIONS.

XGIT-FUEL is a graphene-based hard foul release hull coating that creates an ultra-low friction surface to increase vessel performance, and its amphiphilic technology secures a hydrated layer that deters the settlement and attachment of hard and soft species.

XGIT-FUEL provides outstanding fuel savings and CII rating improvement by using only a single layer of paint above the primer.

10,4% SHAFT POWER REDUCTION AND 3,7% SPEED GAIN

- Verified by Lloyd's Register according to ISO 15016:2015;
- Consistent results at different speeds after eight months;
- Compared to clean abrasion resistant epoxy coating.





Kevin Humphreys Lloyd's Register Marine and Offshore, America's Former President







XGIT-FUEL

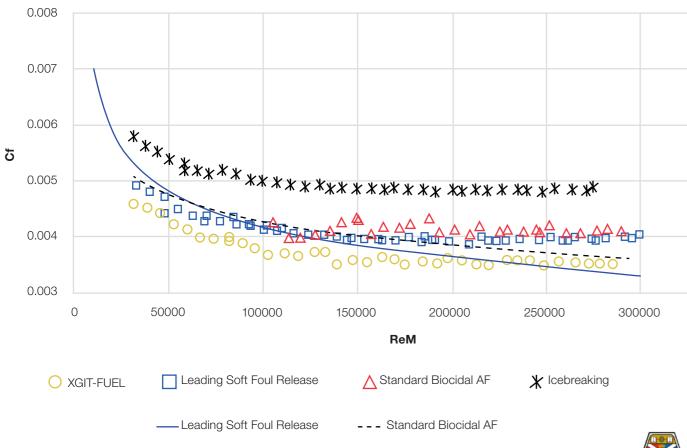
ULTRA-LOW FRICTION. RETHINKING SURFACE SMOOTHNESS

XGIT-FUEL outperforms leading marine coatings with the smoothest surface profile. Our ultra low-friction XGIT® coatings systems have been extensively tested by leading third-party research labs around the world and the results are making the global marine transportation sector take notice.

Independently tested at the Kelvin Hydrodynamics Laboratory at the University of Strathclyde, XGIT-FUEL was proven to have a high-performing low-friction surface profile.

Creating up to 15% less drag than leading marine coatings, XGIT-FUEL can unlock long-term savings for global shipping fleets.





SIT

SIT

XGIT-FUEL

SUPERIOR FOUL RELEASE PERFORMANCE. FOUR TIMES STRONGER THAN SILICONE-BASED COATINGS.

GIT Coatings has partnered with the Center For Corrosion And Biofouling Control at Florida Tech to independently evaluate the effectiveness of underwater grooming on marine paints.

XGIT-FUEL hard amphiphile technology showed the best performance among silicone-foul release coatings and showed very easy to clean properties combined with a surface hardness that can outstand underwater cleaning activities without coating damage. This shows the ability of the coating to maintain its fuel savings.

Idle time of XGIT-FUEL is 30 days in tropical waters, after which it is suggested to move the vessel.



· Complete fouling removal;

• Note: Bulk of adjacent fouling was

also removed indicating low adhesion.

· Coating damage-free;

XGIT-FUEL



- Coating damage-free; • Note: Leftover biofouling adjacent
- to cleaned area indicate adhesion.





XGIT-FUEL 18-MONTH INSPECTION Even after extensive in-service work and extended idle days of vessels operating in Canadian waters, XGIT-FUEL displayed an outstanding performance in effectively managing biofouling growth and withstanding sailing in ice. The underwater inspection proved there was no growth, slime or DFT loss on the surface after the first 18 months of service.

University of





• Coating damage-free;

• Note: Bulk of of deep rooted barnacles remained after cleaning.

2x zoom in comparison shows damage (microplastics) on silicone-based coating due to cleaning with nylon brushes.

XGIT-PROP

CONSTANTLY HIGH PERFORMING PROPOLLER.

XGIT-PROP is a highly durable graphene-based propeller coating that significantly improves vessel performance and protects marine propellers from cavitation over a long period of time. This coating has excellent foul release properties, and it creates an ultralow friction surface to maximize propeller efficiency.

XGIT-PROP was developed based on the shortfalls of other propeller coatings, including weak attachment strength to propeller substrates.

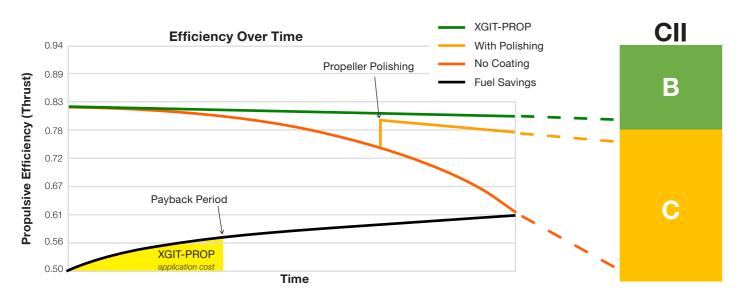
It is easily applied as a three-coat system within one day and if needed, it can be groomed without damaging the surface.

	\sim					reduction	
-7		۱ I	n to	10/	fugl	raduation	
			\mathbf{D} \mathbf{U}	470	luei	reduction	١.

Ultra-low friction surface; \bigcirc

- \bigcirc Highly durable material;
- \oslash Superior fouling release;
- Environmentally friendly. \bigcirc

XGIT-PROP keeps the propeller continuously smooth and efficient.



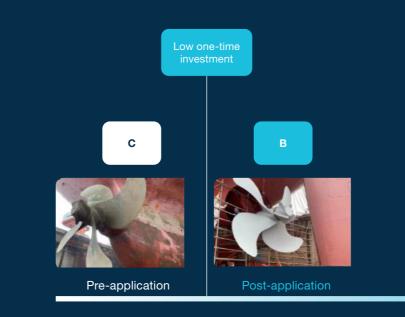


SIT

GIT

XGIT-PROP

ONE OF THE MOST EFFICIENT WAY TO IMPROVE AND MAINTAIN CII RATING

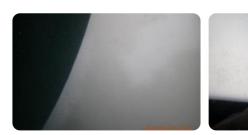


EASY TO CLEAN. NO POLISHING REQUIRED





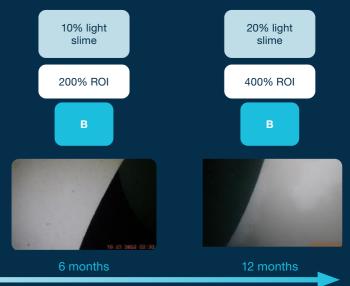
12-Months inspection*



* Soft Grooming at 12-months

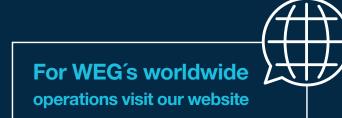








The scope of WEG Group solutions is not limited to the products and solutions presented in this brochure. **To know our portfolio, contact us.**



www.weg.net





+55 (47) 3276.4000

⋈ tintas@weg.net

Guaramirim - SC - Brazil &+55 (47) 3276.4000
Mauá - SP - Brazil &+55 (11) 4547.6100
Cabo de Santo Agostinho - PE - Brazil &+55 (81) 3512.3000
Betim - MG - Brazil &+55 (31) 3268.0686
Buenos Aires - Argentina &+54 (11) 4299.8000
Atotonilco de Tula - Mexico &+52 (55) 5321.4231
Atlanta - USA & 1-800-ASK-4WEG

Cod: 50145118 | Rev: 01 | Date (m/y): 08/2024 The values are subject to change without prior notice. The information contained is reference values.