

Minke Marine A.L. LLC

floating on air...

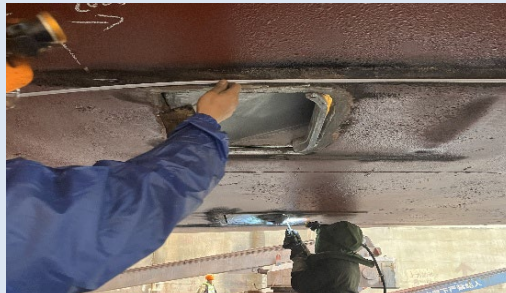
2025 IN REVIEW

The Minke Marine Air Lubrication System (MMALS) is unique in its approach to Air Lubrication – no blowers or compressors, but not “passive” either. In 2025 this low cost, elegant ALS demonstrated significant returns offering great value, after installation during a normal DD.

2025 started well. Another Patent was issued in January



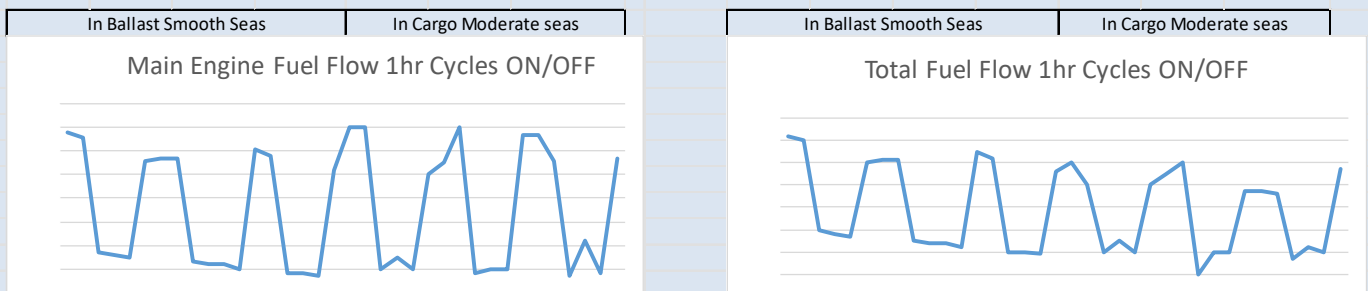
January also saw Minke Marine A.L. LLC expand our partnership with Aitken Marine International, contracted to install the first full scale MMALS aboard a 50,000 DWT General Cargo Vessel, Class DNV. Completed in China during a normal DD, the system was fabricated, installed and working 100% in 12 days, after 3 months engineering lead time. Owners are extremely happy with the results - see graphs below:



The Pilot installation is a low-capacity MMALS using only two, small, low-profile outlets – pictured. Utilizing as much of the vessel’s existing hardware as possible, the project was completed for <\$500,000.

Low-capacity system notwithstanding, it worked right out of the box. Using DNV’s March 2025 Recommended Practice for ALS assessment – Short Term ON / OFF Cycling of the ALS. The results are clear:

MINKE MARINE ALS - Fuel Flow Data only. Speed and Torque improvement not graphed



**We want to hear from you. Reach out to us – gbbcandy@minkemarine.com
Also, follow our updates at www.minkemarine.com**