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LNG as fuel - A developing industry



This publication provides insight on how LNG could be an integral part of the future of this fast developing industry.

LNG is increasingly being used as fuel on vessels other than LNG carriers. The search for 'green' fuel, as well as developments in engine and LNG storage technology, have helped the industry develop quickly in recent years. This guide looks at issues that a ship owner or charterer may want to consider when negotiating a contract for the supply of LNG as fuel such as, scheduling and responsibility for delays, quantity / composition (i.e. quality), and operational aspects of the bunkering operation.

Contact

If you would like further information on this topic then please contact our Underwriting Department or your dedicated relationship manager.

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This news publication was put together with the assistance of Ingolf Kaiser from Stephenson Harwood.



LNG as Fuel - A Developing Industry

LNG is increasingly being used as fuel on vessels other than LNG carriers. The search for 'green' fuel, as well as developments in engine and LNG storage technology, have helped the industry develop quickly in recent years. However, as with any fuel there must be sufficient infrastructure to supply it, reliably and on time, to vessels whose schedules can be unpredictable.

LNG bunkering vessels are relatively expensive and the technological requirements for transferring LNG are more demanding than for conventional fuel oil. There are therefore some significant hurdles to overcome, but there are signs already that suggest that use of LNG will become more widespread and easier to adopt.

At present there are still relatively few locations where LNG can be supplied as fuel, making it better suited to smaller vessels operating close to home (e.g., tugs) or those with a fixed schedule such as ferries, cruis ships or container ships. The LNG bunkering intrastructure is currently concentrated in areas where there are established ECAs in place. It is likely that these initial developments will assist in growing the wider LNG infrastructure such that vessels with global trading patterns could bunker for LNG as fuel to as they currently do for traditional bunkering. Plans are already drott to establish LNG bunkering infrastructure in Singapore which is arguably one of the world's busiest bunkering ports. Japan, South Krorea and Australia are also working

Typically, an LNG bunkering vessel will supply the LNG whilst alongside the receiving vessel, but it can also be supplied from a dedicated shore terminal (e.g. for local ferries and tugs) or even by road tanker for small vessels. On the receiving vessel, different types of tank are used to store the LNG either close to store the LNG either close to atmospheric pressure, or at higher pressure. These may even be housed in a standard 20 for to rafer exceeding the container frame, but for larger wessels requiring a greater range, more space will be needed. The LNG either close to the space will be needed. The LNG when it is vaporised and burned in the ship's engines(), which are 'dual fuel', i.e. they can burn both LNG and conventional fuel oil. Of course, where LNG is carried, the intention will usually be to burn gas rather than coll oil where possible, but there may still be times when conventional fuel sine deed.

This guide looks at issues that a ship owner or charterer may want to consider whom negotiating a contract for the supply of LNG as frout, including cover issues from a P&I insurance perspective. BIMCO is developing a standard form contract for the purchase of LNG, but most of the current suppliers are oil might person or large operators and it remains to be seen whether a BIMCO from a good property of the supplier's terms) will copposed to the supplier's terms) will

DNV GL has also created Fuel Boss, which is a fully digital tool for I/O. Guel suppliers and shipowers that allows them to plan, execute and communicate about I.NG bunkering operations. The platform provides suppliers with a tool to manage the operation of their entire LNG contract portfolio and shipowners with one common interface for their I/O. Bunkering operations aroses different suppliers.



Even in the conventional fuel market, only the largest of buyers use their own standard terms. Of course, that does not mean that the supplier's terms are non-negotiable, and an owner / charterer will be particularly interested in (ii) scheduling and responsibility for delays, (iii) quantity / composition (ii.e., quality/), and (iiii) the poperational aspects of the bunkering operation. We will now look at each of these aspects for the.