



Year-long LNG carrier testing of JAWS (Just Add Water System) software as distributed within KONGSBERG's K-IMS Solution delivers average energy savings of 5%

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Shell commits to five-year JAWS / K-IMS contracts following successful tests

Oslo, 23rd February 2022: KONGSBERG is pleased to announce that Shell has just signed a five-year contract for the installation of its JAWS (Just Add Water System) software on board 45 of the LNG carriers chartered by Shell. These are LNG carriers which already utilize the Kongsberg Maritime K-IMS Information Management System application suite.

The contract signing follows a successful year-long trial, co-conducted by

KONGSBERG, Shell and the LNG shipping services provider Gaslog, on board the LNG carrier *Methane Julia Louise*. The vessel's shaft energy consumption was recorded for nine months prior to the JAWS installation, as well as throughout the year-long trial with the JAWS software installed, and the trial demonstrated that JAWS could provide a significant fuel saving for the vessel.

JAWS is a user-friendly hydrodynamic optimisation program, with no additional instrumentation required. It calculates the most advantageous operating conditions in real time based on algorithms developed from historic high-frequency vessel data. The system continually issues recommendations for optimal trim and draft, helping crews to cut fuel consumption and GHG (greenhouse gas) emissions. JAWS provides live data that allows ship and fleet managers to monitor and report emissions savings.

K-IMS, meanwhile, is a web-based solution which gives both ship crews and shore teams continual access to crucial voyage and vessel data. The provision of JAWS as an application within the K-IMS suite renders it instantly available to all K-IMS users.

Over the course of the year-long testing phase, onboard and onshore monitoring confirmed that the JAWS software generated substantial average energy savings of 5% when its recommendations were followed. This benchmark data was contrasted with performance data gathered from the sister vessel *Methane Becki Anne*, which followed a similar trading pattern.

One immediate outcome of the tests was a commitment from NSML (Nigeria Ship Management Limited) to invest in JAWS software for 11 of its LNG carriers.

“JAWS has arrived at a pivotal time for shipping operations,” says Karrie Trauth, Senior Vice President of Shell Shipping and Maritime, *“when digitalisation is being recognised as a key enabler for an industry determined to cut costs, reduce emissions and enhance efficiency. It was encouraging to see JAWS referenced directly in the International Energy Agency’s World Energy Outlook 2021 flagship report as a key technology for delivering on emission-reducing targets in the shipping sector.”*

The availability of JAWS via the K-IMS solution will prove indispensable in the light of the IMO's imminent revision of its GHG reduction strategy. In 2023, new strictures will apply to performance measurements including the

SEEMP (Ship Energy Efficiency Management Plan), wherein ship owners are obliged to monitor and continuously improve their vessels' fuel efficiency under all operating circumstances, and the CII (Carbon Intensity Indicator), in which cargo ships are required to keep their carbon emissions below a mandated level, measured in grams of CO₂ per DWT (Deadweight Tonnage) per nautical mile.

JAWS is not only applicable to LNG shipping: Shell is currently working with KONGSBERG to include JAWS in the Kognifai Marketplace, which will allow the system to become available to ocean-going ships of all types by utilizing the Vessel Insight infrastructure.

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About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable 'Full Picture' technology solutions for all marine industry sectors including merchant, offshore, cruise, subsea and naval. Headquartered in Kongsberg, Norway, Kongsberg Maritime has manufacturing, sales and service facilities in 34 countries.

Kongsberg Maritime solutions cover all aspects of marine automation, safety, manoeuvring, navigation, and dynamic positioning as well as energy management, deck handling and propulsion systems, and ship design services. Subsea solutions include single and multibeam echo sounders, sonars, AUV and USV, underwater navigation and communication systems.

Training courses at locations globally, LNG solutions, information management, position reference systems and technology for seismic and drilling operations are also part of the company's diverse technology portfolio. Additionally, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

Kongsberg Maritime is part of Kongsberg Gruppen (KONGSBERG), an international, knowledge-based group that celebrated 200 years in business during 2014. KONGSBERG supplies high-technology systems and solutions to customers in the oil and gas industry, the merchant marine, and the defence and aerospace industries.

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