

THREE SHIPS, THREE PATHS OF COMPLIANCE

VLSFO is the most environmentally friendly solution to be compliant by January 2020. But not all ships run on low-sulphur fuels; ships of the "Hamburg Express" class have been outfitted with exhaust gas cleaning systems (EGCS) since March 2019. Next year, Hapag-Lloyd will be converting the "Sajir" to liquefied natural gas (LNG). This is a pilot project for the entire industry, as it will be the first container ship to be converted.



FLEETS BY FUEL TYPE

Starting in 2020, the Hapag-Lloyd fleet will bunker up on three different kinds of IMO-compliance

EGCS – exhaust gas cleaning system

10 Hapag-Lloyd

5 Seaspan (chartered)

4 Doehle (chartered)

VLSFO-compliant fuel

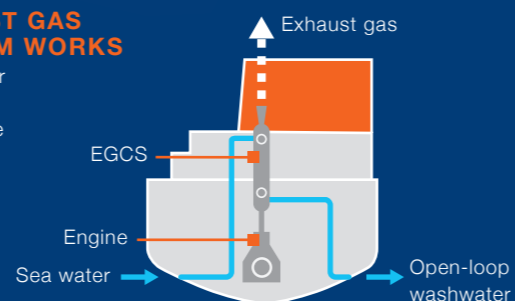
217 Hapag-Lloyd

LNG – liquefied natural gas

1 Hapag-Lloyd (as of 2020)

HOW THE EXHAUST GAS CLEANING SYSTEM WORKS

In an open loop, seawater is pumped through the EGCS to desulphurise the ship's exhaust fumes and ultimately drained back into the sea. "Hybrid-ready" allows the system to later be upgraded to a closed loop.



OVERVIEW OF THE FUEL TYPES STARTING IN 2020

S0x 3.5%

HSFO

Heavy fuel oil has a sulphur content of 3.5 per cent. According to IMO2020, these ships will only be allowed to use this fuel if they have an exhaust gas cleaning system.

S0x 0.5%

VLSFO

This fuel has a sulphur content of 0.5 per cent and is thus IMO2020-compliant. A majority of the ships will run on VLSFO starting January 2020.

S0x 0.1%

ULSFO

Fuel with a sulphur content of 0.1 per cent will be used in coastal emission control areas (ECAs) – and this has been done since 2015.

S0x 0.1%

LSDO

Gas oil is IMO2020-compliant, however it is also very expensive. This is used as a backup for ports where no low-sulphur fuels are available.

S0x 0.0%

LNG

Liquefied natural gas is not only low-sulphur, it also drastically reduces emissions. This fuel thus goes above and beyond IMO2020.

IMO2020 STANDARD

S0x 0.5% **WORLDWIDE**

Starting in 2020, only fuels with a sulphur content of 0.5 or lower are allowed – with the exception of ships with EGCS.

S0x 0.1% **EMISSION CONTROL AREAS**

Only ships with a sulphur content of 0.1 per cent or lower may operate in the ECAs – and that's been the case since 2015.