XBEE
ENZYME FUEL TECHNOLOGY

ALDA MARINE

Suresne, France

Alda Marine is the result of a joint venture operated in 2000 by Alcatel Lucent Submarine Network and Louis Dreyfus Armateurs (LDA).

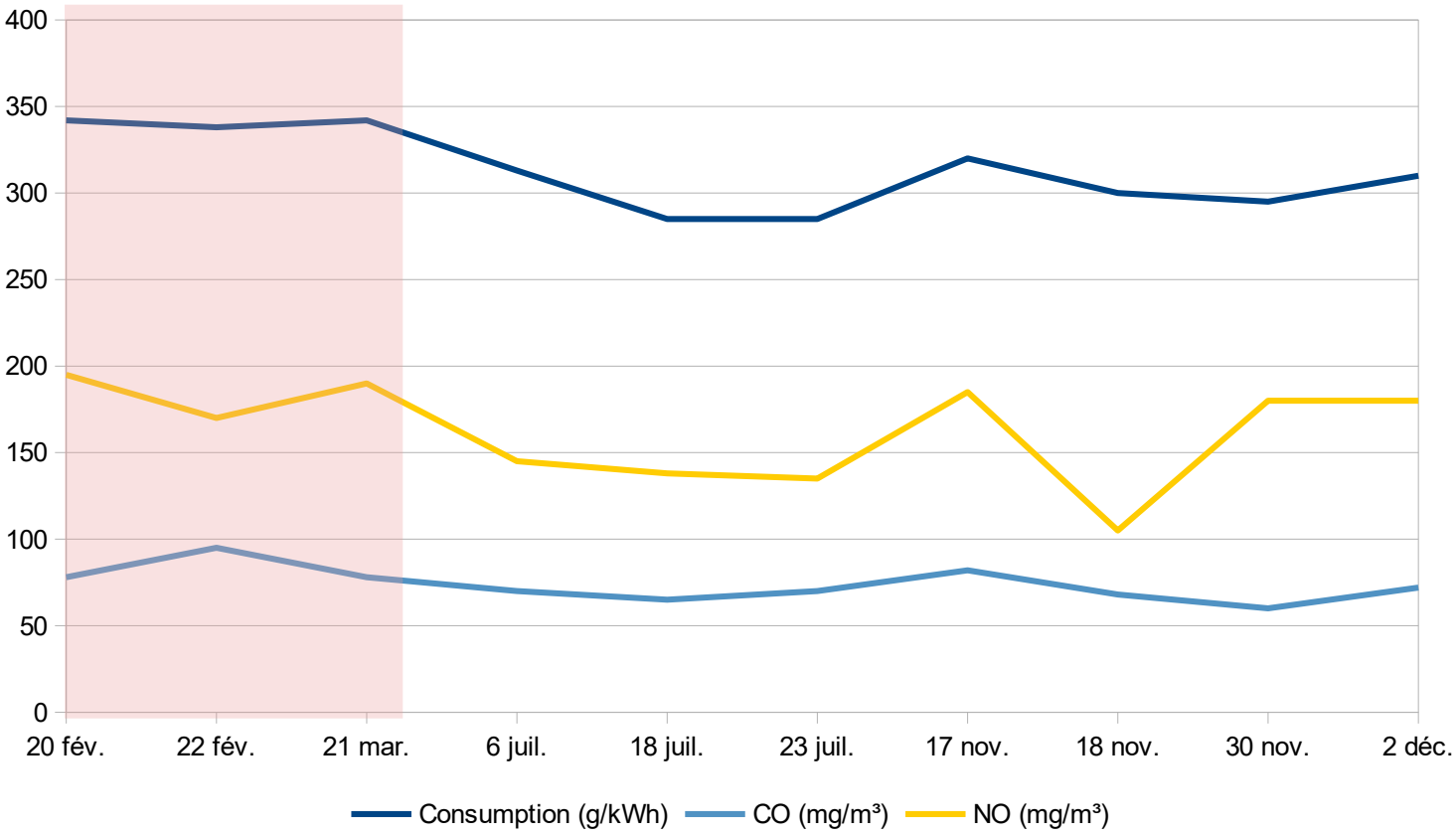
In 2010, Philipe Legros, then technical director of LDA, supervised an evaluation for almost a year on board the cable-layer vessel *Peter Faber*. The ship is equipped with two Alpha 6L28/32 engines. Three measurements were carried out before using **XBEE Enzyme Fuel Technology** on February 20 and 22, as well as on March 3, 2010. Seven comparative measurements were subsequently made, between July 6 and December 2, 2010.

The LDA technical team has installed gas analyzers to measure carbon monoxide (CO) and nitrogen monoxide (NO) emissions. They also set up flow meters to measure diesel consumption which, connected to the electrical power output, made it possible to calculate the specific fuel consumption of the ship in grams per kilowatt hour.

Results analysis

In just nine months of treatment, namely from April to December 2010, **XBEE** enzymes made it possible to reduce NO emissions by -17.53%, as well as CO emissions by -16.85%.

Even more remarkable, the specific diesel oil consumption has been reduced by -11.60%!



	Without XBEE	With XBEE	Difference
Specific DO consumption (g/kWh)	340.67	301.14	-11.60%
CO (mg/m³)	83.67	69.57	-16.85%
NO (mg/m³)	185.00	152.57	-17.53%