

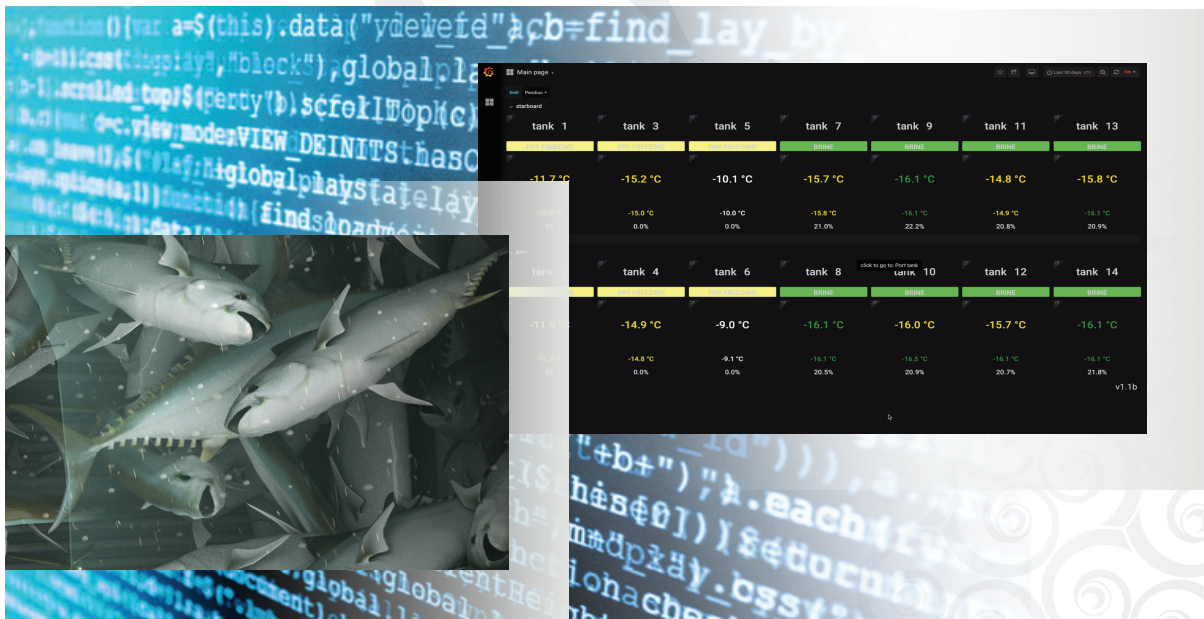


SBV ALGORITHM AND IHM SBV SOFTWARE

Innovative development resulting from the R&D (research and development) carried out by Olen

Olen's metrological research was triggered by the fact that no system was able to display the salinity of brine or seawater in the refrigeration and freezing processes used in the fishing industry.

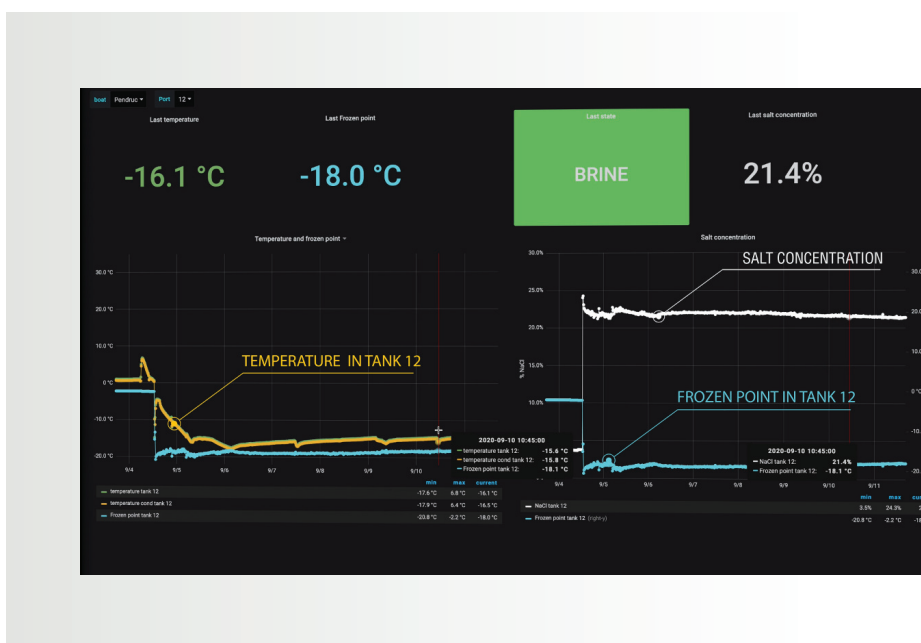
This is how a specific algorithm for processing data from SBV sensors has been developed.



This algorithm determines the salinity of the brine at positive and negative temperatures and at each stage of brine ageing.

It also defines the freezing point of the brine, an essential information in the cold descent process to determine a target temperature and avoid any risk of damage on the on-board refrigeration systems.

The IHM SBV software has been specifically developed to meet the needs of the technicians involved in the cold control inside the ship's tanks and to make full use of SBV technology.



Thanks to its interfaces, the technician can monitor the temperature in each tank, mass percentage of salt in the brine or seawater, as well as the freezing point value of the liquid.

Features of the algorithm:

Measurement of the freezing temperature:
Measuring range -20°C ... 0°C
Accuracy: $\pm 2,5\%$ of the measure

Measurement of the mass percentage of salt:
Measuring range 0 ... 26,6%
Accuracy: $\pm 2\%$ of the measure



Bureau Veritas evaluates the proper functioning of the "Smart Brine Viewer" system developed by Olen, which measures temperature and salinity data during the conservation process of fishery products. The significance and the limits of this evaluation are detailed in the evaluation report.



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