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Definition of LOC, WLT and OC

Kopavogur, Iceland in July 2006

Ref.: **LeanFish do-it-yourself Fish Meal Plants**

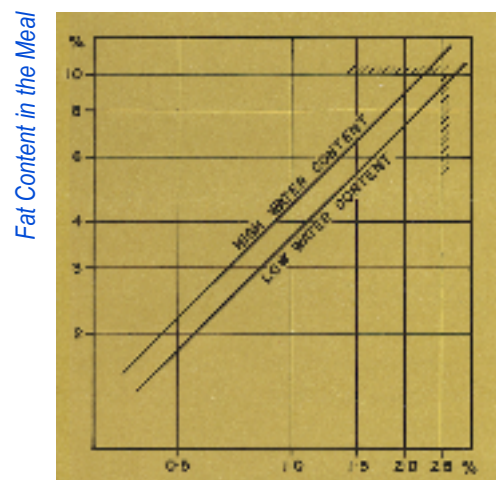
The **LeanFish dry rendering fish meal process** is unique in that it recovers all the solids and all fluids from the raw material—except a fraction of the water, which remains in the meal as the **moisture content**. The plants are built to suit the conditions on site; **offal, by-catch** and **fresh harvests** of all marine and aquatic fish species are processed into **first grade product** (meal).

LOC—Live Oil Content—is the amount of oil in the raw material calculated as percentage of the animal's live weight (diagram). Raw material with **LOC below 2,5%** is 'lean' and can be fed directly to the basic **LeanFish** plant, while for raw material with **LOC above 2,5%**, termed as 'oily', the plant can be extended with an **Oil Extraction Package**, which reduces the oil content corresponding to the LOC to 2,5% or less. Following the oil extraction, the treated material can be **fed to the LeanFish dryer**.

WLT Meal stands for **Whole Low Temperature Meal** and means that the entire dry substance and all the fluids were recovered from the raw material. Hence, neither liquids nor solids are discharged from the plants, making them **environment-compatible**.

In locations **sensitive to the smell** from fish meal processing, **LeanFish** fish meal plants are extended with **Odor Control (OC)**, working with **bio-chemical additives** or the **injection of ozone**, thus removing **vapor, solids** and **smell** from the exhaust.

We, **IceBits**, offer **full sets of drawings** and specifications for the local **fabrication, assembly, erection and installation** of the **LeanFish do-it-yourself Fish Meal Plants**, and provide **supervision** during the commissioning and training of the operators.



Live Oil Content (LOC) in the Raw Material



**Leanfish; the Final Answer
to a Perpetual Question**