

MANILA, P. I.

March 1, 1918.

I, WILLIAM SWANN

Messrs. Pacific Mail S.S. Co., Manila, attend on board the American Steel Co. Sr. "CACIQUE" 6202 tons Gross Reg. while lying afloat in Manila Harbour on various dates between 16th. and 26th. February 1918, for the purpose of ascertaining the quantity of Cocoa-nut Oil Cargo loaded into the vessel's Deep Tank.

I found the quantity to be 323,205 U.S. Gallons (Three hundred and twenty three thousand, two hundred and five United States Gallons).

This quantity was arrived at by taking careful soundings of the Deep Tank after cargo was loaded - converting the soundings into U.S. Gallons as per graduated scale aboard the vessel - adding the necessary correction for bilge space - and subtracting the necessary corrections for heating pipes, bulkheads &c. added since scale was calculated.

The mean height of the oil over the ballast tank top as shown by the soundings was 25'-10". (Twenty five feet ten inches)



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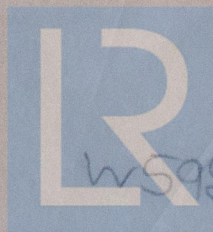
and the temperature of the oil was 82 ° F. (Eight two degrees Fahrenheit).

I took a sample of the oil from the tank and forwarded it to the Bureau of Science Manila, who certified that the weight of one U.S. Gallon of same at 82 ° F. was 3.481 kilograms. The weight of the oil which was loaded in the vessel was therefore 1,125,976.6 kilograms or 2,480,344 lbs. (Two million four hundred and eighty thousand three hundred and forty four pounds).

SURVEY FEE
P150.00
EXPENSES
P4.00.

NOTE:- The above method of determining the quantity of oil was adopted as being the most accurate which was practicable under the circumstances of the loading.

In my opinion, however, it is not practicable to measure with absolute accuracy, a quantity of oil such as this, while lying in a vessels tank, and the given quantity can only be taken as a very close approximation, and should not be considered to be as accurate as if, for example the oil had been weighed or measured piecemeal with proper appliances before loading.



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