

COPY.

Lloyd's Register of Shipping.



Port DAIREN No. 4877 (a)

February 1st, 1934.

This is to Certify that

John Sin

the undersigned Surveyor to this Society did at the request of

Messrs. Cornabe, Ekford & Winning, Lloyd's Agents at Dairen, on behalf of Messrs. East Asiatic Co., Dairen, attend on board the S/S "KAKO MARU" of Tokio, on Jan. 30th/31st as she lay at the Jijiko Pier also visited the South Manchuria Railway Co.'s storage tanks for the purpose of measuring a shipment of Bean Oil to be loaded into the Port After Deep Tank and reporting on the capacity and safe stowage of same in bulk for Europe.

The measurements were taken at the S.M.R.Co.'s storage tank No. 1 and measured before loading 3.577 cub metres equals 615.153 cub metres F.W. with oil temp 9°C and density .9279 i.e. 615.153 x .9279 equals 570.800 cub metres oil in tanks.

Remaining in tank after loading 1.210 metres equals 219.921 cub metres F.W. with oil temp 7.4°C and density .929 i.e. 219.921 x .929 equals 204.306 cub metres oil.

Therefore 570.800 minus 204.306 equals 366.494 cub metres divided by 1.016 and less .022 for loss in pipes making total into ship's tank 360.7 long tons (Three hundred and sixty decimal seven long tons) shipped.

Ullage measurements taken 20 hours after loading had been completed with Draft Fore 9'-7" Draft 18'-5" list 1/2° to Port Mean temp 7.7°C and Mean density .9289 Sea temp + 1.1°C Air temp + 1.1°C

19 1/2"	F	19"
:	:	:
:	:	:
:	P	:
:	:	:
:	:	:
18 1/2"	A	18"

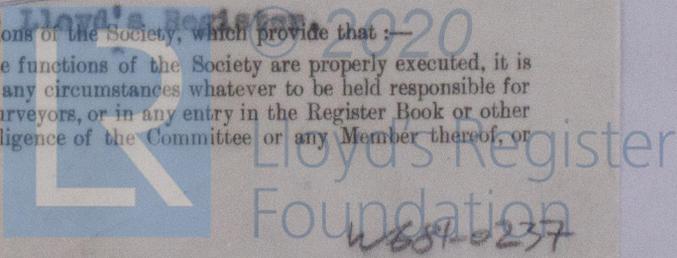
Sufficient allowance has been made for expansion during present voyage to Europe.

I hereby certify that all the above measurements together with temp and density were taken by the undersigned and show the amount of Bean Oil loaded into the Port After Deep Tank of the S/S "KAKO MARU" of Tokio, on January 30th, 1934.

Survey Fee 5-5-00
Expenses 5-00

John Sin
Surveyor to Lloyd's Register

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