To Freeboard Dept.

Gulf Oil Tanker (Furness No. 462)

"MELIKA"

The various trim and stability conditions have been investigated and with the exception of Nos. 8 and 16, are satisfactory from the longitudinal strength point of view.

It is strongly recommended that:

Condition 8

Nos. 3 and 9 Centre Tanks be emptied, and 1 and 10 Centre Tanks filled.

Condition 16 { As proposed the stresses are very high. To reduce these to a figure considered satisfactory, should be

No.6 Wing Tanks be emptied, and 1 and 10 Wing Tanks filled.

The following conditions, although not associated with unduly high stresses, would be improved if:

Condition 4: No. 6 Wing Tanks emptied. Nos. 4 and 10 Wing Tanks filled.

Condition 13: Part empty No. 5 Wing Tanks. Completely fill Nos. 2 and 10 Wing Tanks.

Condition 19: Empty Nos. 3, 5 & 8 Wing Tanks. Fill No. 2, 4 and 9 Wing Tanks.

Condition 22: Empty Nos. 4, 6 & 9 Wing Tanks. Fill No. 1 Centre and Nos. 5 & 8 Wing Tanks.

It is also pointed out that the local stresses produced by the practice of ballasting the ship in "bands" of wing and centre tanks athwartships would be reduced if a system of filling alternate wing and centre tanks was adopted. This recommendation applies to:

Conditions 6, 7, 9, 10, 12, 18 and 21.

All the supplementary conditions Nos. 2B ~~and~~ to 17B are satisfactory.

P.R.A.

12th January, 1954

It is submitted that the Surveyor be informed that the alterations & repairs to the underdeck tanks are satisfactory.

J.R.
12.1.55.

Mdb.Ltr 8.12.54.
Ans. 13.1.55.