

"CALTEX LIVERPOOL"

List of Recommended Minimum Repairs
Sufficient for 4 Year Period from
May, 1967

The intention of the following recommendation is to restore stiffness of tank structure.

Wing Cargo Tanks:-

- (1) Renew side stringers, 2nd from top on shell side and longitudinal bulkhead side with associated brackets in all tanks.
- (2) Renew horizontal girder, 2nd from top with associated brackets, in all tanks.
- (3) Vertical deep webs - side shell and longitudinal bulkheads. Reinforce with additional material in way of the flanges. Renew all horizontal flat bar stiffeners associated with these webs, throughout all tanks.
- (4) Bulkhead vertical stiffeners, transverse bulkheads, renew alternate stiffeners (original 10" x 0.42.B). Renew alternate stiffeners of longitudinal bulkheads (original 10" x 0.42.B)
(These stiffeners were found wasted in way of the scallops for full length of stiffener). Renew throughout all tanks.

Centre Cargo Tanks:-

- (5) Renew horizontal girder, 2nd from top with associated brackets, in all cargo tanks.
- (6) Transverse bulkhead vertical stiffeners, renew alternate stiffeners (original 10" x 0.42B) in all tanks.



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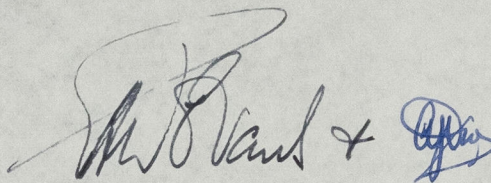
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In our opinion, by implementing the stiffening of the bulkheads referred to above the tendency of grooving continuing to take place will be minimized.

It was previously reported (see Syd. Report No.39430) that cracks in bulkheads had been repaired. In all there were a dozen defects repaired.

With the exception of this condition the material is considered to be satisfactory.



(P.H.W. Evans and A.J. DIX)
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