

Received by Chief Engineer Surveyor.....

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VESSEL'S NAME "BRITISH DEFENDER"

REPORT Sld. 35399  
Mch. No. 14166  
Mdb. 19057,71.

The remarks of the Chief Engineer Surveyor are desired on this case for the consideration of the Classing Committee.

(The endorsement to contain a succinct summary of any repairs that have been required and to show the cause or causes of such repairs, and also to bring out clearly any exceptional features in connection with the case, so that the Classing Committee may have all the salient points presented in the endorsement.—Extract from Sub-Committee's Report, 24/5/92.)

Type of Engine Oil Engine 2 S.C.S.A.  
3 Cyl. 23<sup>5</sup>/<sub>8</sub>" - 91<sup>5</sup>/<sub>16</sub>"  
MN 516

~~If Boilers fitted with forced draught~~

Tail Shaft. If fitted with a continuous liner Yes  
If fitted with an outside gland of approved type No

The torsional vibration characteristics of the main propelling machinery were approved in the Secretary's letter of 21. 12. 44 for a previous duplicate case.

This vessel's machinery appears to have been built in accordance with the Rules and the approved plans, and it is submitted she is eligible to be classed \* LMC 7.50  
"Carrying petroleum in bulk"  
2 DB 150 lb.

The Sunderland Surveyors should be informed it is noted they state the shafting plans were approved in 1937, and the main machinery torsionals in 1944, but it is not considered desirable that reference should have to be made back over a number of years for details of construction and approval. It is also always possible for some change from the original approval to have been made without being observed.

They should therefore be asked to forward a complete set of shafting plans and, if any alterations have been made which might affect the torsional vibration characteristics, a fresh set of these calculations should also be forwarded as soon as possible.

They should also be advised that, whenever a new order is obtained for machinery or boilers, which is alleged to be a duplicate of a previous case, the facts should be forwarded to this Office so that a decision can be made regarding plans, and the records thus kept up to date.

