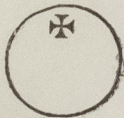


## AMERICAN BUREAU OF SHIPPING

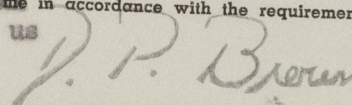
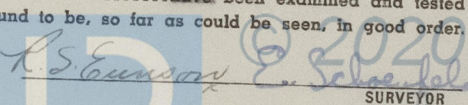
COPY

Date **DECEMBER 2, 1949**

RT NO. <b>49-18652-137</b>		<b>REPORT ON CASTINGS OR FORGINGS</b>					PORT OF <b>PITTSBURGH</b>		
EL S. "GLADYS MOLLER"		INTENDED FOR <del>SHIPBUILDER</del> LANCASHIRE SHIPPING CO., INC. (USA) 52 BROADWAY, N. Y. 4, N. Y.					SHIPYARD HULL NO.		
PED B. 		ENGINE BUILDER ELLIOTT CO., JEANNETTE, PA.					WORKS ENGINE NO.		
No Stamping PTED (DATE) 3-31-49 3-2-49 PED (DATE) SEE NOTE BELOW		PURCHASER ELLIOTT CO., JEANNETTE, PA.					PURCHASER'S ORDER NO. <b>54848</b>		
		MANUFACTURER UNIVERSAL-CYCLOPS STEEL CORPORATION, TITUSVILLE, PA.					MANUFACTURER'S NO. -		
		INVOICE NO.		PROCESS OF MANUFACTURE <b>UNILOY 1409 STEEL BARS HEAT TREATED</b>		ANNEALED		WEIGHT -	
DESCRIPTION		PIECE NUMBER	HEAT NUMBER	Test Piece Area	Yield Point P.S.I.	Tensile Strength P.S.I.	% Elong. in 2"	% Reduction in Area	BEND
5 FT. OF 12" x .840" STEEL R STOCK FOR RBINE BLADES P YG-75039-3 YG-75038-5 YG-75038-6			Spec. 83A - B2272	.200	.01% 70000 77500	100000 112200	20.0 23.0	60.0 67.2	180° OK
			SPEC. MATERIAL		BHN 200-240 212	IZOD IMPACT FT. LBS. 50 MIN 69		MICROETCH OK	
<b>MANUFACTURER'S CHEMICAL ANALYSIS:</b>									
SPEC.-		C.	MN.	SI.	SU.	P.	CR.	NI.	MO.
HEAT -		.06/.13 .093	.25/.80 .52	.50 Max .26	.03 Max .022	.03 Max .023	11.5/13.0 11.95	.50 Max .31	.60 Max .36
NOTE- THIS MATERIAL MADE INTO TURBINE BUCKETS FOR FIELD INSTALLATION IN 2ND, 3RD & 4TH STAGE WHEELS OF MAIN PROPULSION TURBINE OF ABOVE VESSEL. MATERIAL SHIPPED TO ENGLAND AND THEN RETURNED. USED TOGETHER WITH OTHER TESTED STOCK MATERIAL TO BLADE A COMPLETE NEW ROTOR COVERED BY PITTSBURGH REPORT # 49-PH34474-137 dated 12-2-49.									

Particulars of Drop Testing, Slings and Hammering.

MARKS: **FINISHED BLADES SURFACED AND ACCEPTED.**

Visit <b>3-21-49</b> st Visit <b>6-2-49</b> of Visits <b>3</b> es penses TAL	The above <u>material</u> <u>has</u> been examined and tested by <u>me</u> in accordance with the requirements and found to be, so far as could be seen, in good order.  CHIEF SURVEYOR  SURVEYOR
---	---

This Report is granted subject to the condition that it is understood and agreed that neither the Bureau nor any of its Committees is under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by this Bureau or its Surveyors or in any entry in the Record or other publication of the Bureau or for any error of judgment, default or negligence of its Officers, Surveyors or Agents.

005069-005074-0156