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2 OCT 1941

Index No. 36653

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25/4/49

Lloyd's Register of Shipping

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

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Ship's Name EMPIRE PLOVER JANE LEW	Official Number 168189 220794	Nationality and Port of Registry BRITISH LONDON. GLASGOW	Gross Tonnage 6109 6085	Date of Build 1920	Port of Survey NEW ORLEANS.
Moulded Dimensions: Length 402.5 Breadth 53.0 Depth 34.5					Date of Survey OCT 28, 29, 31, NOV 1. 1940
Moulded displacement at moulded draught = 85 per cent. of moulded depth 14050 (approx) tons					Surveyor's Signature Rannie
Coefficient of fineness for use with Tables .788					Particulars of Classification 100 A1 with fbr Class Contemplated

Depth for Freeboard (D). Moulded depth ... 34.5 Stringer plate5605 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓ Depth for Freeboard (D) = 34.55	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(34.55 - 26.83) \times 3 = 23.16$ 7.72 (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ ✓ If restricted by superstructures ✓	Round of Beam correction. Moulded Breadth (B) 53.0 Standard Round of Beam = $\frac{B \times 12}{50} =$ 12.72 Ship's Round of Beam = 15.0 straight Difference Camber equiv. camber approx. Restricted to equal to standard Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ ✓ $\frac{47}{4} \times .8199 = +10$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	34.0	34.00	8.0	-	34.00
overhang ...	✓				
R.Q.D. enclosed ...	✓				
overhang ...	✓				
Bridge enclosed ...	✓				
overhang aft ...	✓				
overhang forward ...	✓				
Fore enclosed ...	38.6	38.50	7.9	-	38.5
overhang ...	✓				
Trunk aft ...	✓				
forward ...	✓				
Tonnage opening aft ...	✓				
forward ...	✓				
Total ...	72.6	72.50			72.5

Standard Height of Superstructure **7.5**
 " " R.Q.D. **✓**
 Deduction for complete superstructure **42**
 Percentage covered $\frac{S}{L} =$
 $\frac{72.5}{402.5} = 18.01$
 Percentage from Table, Line A. (corrected for absence of forecastle (if required))
 Percentage from Table, Line B. (corrected for absence of forecastle (if required)) **9.0**
 Interpolation for bridge less than 2L (if required)
 Deduction = **9.0 × 42 = 378**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	50.25	1	50.25	66	66	1	66	66	
$\frac{1}{4}$ L from A.P. ...	22.36	4	89.44	20	20	4	80	50	
$\frac{3}{4}$ L " ...	5.53	2	11.06	2	2	2	4	4	
Amidships ...	0	4	0	0	0	4	0	0	
$\frac{3}{4}$ L from F.P. ...	11.06	2	22.12	4	4	2	8	8	
$\frac{1}{4}$ L " ...	44.72	4	178.88	40	40	4	160	160	
F.P. ...	100.50	1	100.50	132	132	1	132	132	
Total ...			452.25				450		

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ **assume standard shear.**
 $\frac{2.25}{18} (.75 - .09) = +.08$ If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. ✓

Deduction for Tropical Freeboard.
 Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **34.55**
 Summer freeboard = **8.28**
 Moulded draught (d) = **26.473**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **6.61**
 Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 12625$
 Tons per inch immersion at summer load water line
 $T = 43.3$
 Deduction = $\frac{\Delta}{40T}$ inches = **7.23**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **788 + .68 = 1.466**
 $\frac{1.36}{1.36} = 1.36$
 Depth Correction ... **23.2**
 Deduction for superstructures ... **3.78**
 Sheer correction ... **.08**
 Round of Beam correction ... **.10**
 Correction for Thickness of Deck amidships ...
 Other corrections, scantlings, etc. ...
23.34 **3.78** **19.46**

Summer Freeboard = **97.46**

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:

Tropical Fresh Water Line above Centre of Disc ... **13 3/4**
 Fresh Water Line " " ... **7 1/4**
 Tropical Line " " ... **6 1/2**
 Winter Line below " " ... **6 1/2**
 Winter North Atlantic Line " " ... **✓**

Tropical Fresh Water Freeboard ... **6'-11 3/4"**
 Fresh Water " " ... **7'-6 1/4"**
 Tropical " " ... **7'-7"**
 Winter " " ... **8'-8"**
 Winter North Atlantic " " ... **✓**

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Trade of ship

International

Names of sister ships

Similar vessel FRESNO.

Builder's name and yard number

Moore S.B. Co

Owners

Lochinvar Ltd.

Fee £

To be chgd. London & credited to Mobile a/c.

See Classification fees

RPD. 22/6

23.7.42



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