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Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 39857

(For London Office only.)

7 OCT 1948

7380

Ship's Name "TULIPFIELD" EX. NORLAND.	Official Number 167703	Nationality and Port of Registry BRITISH. LIVERPOOL.	Gross Tonnage 389.79	Date of Build 1922.	Port of Survey BIRKENHEAD.
Moulded Dimensions: Length 146.10 Breadth 28.50 Depth 14.75 (top of bar keel.)				Date of Survey SEPT. 1947 to SEPT. 1948.	
Moulded displacement at moulded draught = 85 per cent. of moulded depth				Surveyor's Signature W. Lockhart.	
Coefficient of fineness for use with Tables 68 (Actual 40) ✓				Particulars of Classification A.1. "Petroleum" Sludge Vessel "for service in & between ports in the British Isles."	

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	14.75	(a) Where D is greater than Table depth (D - Table depth) R = $14.75 - 9.74 = +5.66$		Moulded Breadth (B)	28.50
Stringer plate	.03	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = $9.74 - 14.75 = -5.01$		Standard Round of Beam = $\frac{B \times 12}{50}$	6.84
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$		If restricted by superstructures ✓		Ship's Round of Beam	6
Depth for Freeboard (D) =	14.78			Difference	0.84
				Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{.84^2}{4} \times .8297 = +0.17$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed					
„ overhang aft					
„ overhang forward					
F'cle enclosed SEE SKETCH.	24.88	24.88	7'-6"	✓	24.88
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total	24.88	24.88			24.88

Standard Height of Superstructure **6.00**
 „ „ R.Q.D. **✓**
 Deduction for complete superstructure **20.61**
 Percentage covered $\frac{S}{L} =$
 $\frac{S_1}{L} =$ } **17.03**
 $\frac{E}{L} =$
 Percentage from Table, Line A. **8.52**
 (corrected for absence of forecastle (if required))
 Percentage from Table, Line B. **✓**
 (corrected for absence of forecastle (if required))
 Interpolation for bridge less than .2L (if required) **✓**
 Deduction = $20.61 \times .0852 = -1.76$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	24.61	1		24.61	3.875	46.50	1		46.50
1/4 L from A.P.	10.95	4		43.80	2.83	34.00	4		136.00
1/2 L	2.71	2		5.42	.83	10.00	2		20.00
Amidships	✓	4		✓	0	✓	4		✓
3/4 L from F.P.	5.41	2		10.82	.67	8.00	2		16.00
3/4 L	21.90	4		87.60	2.33	28.00	4		112.00
F.P.	49.22	1		49.22	6.79	81.50	1		81.50
Total				221.47					412.00

Mean actual sheer aft = **Excess**
 Mean standard sheer aft = **Excess**
 Mean actual sheer forward = **Excess**
 Mean standard sheer forward = **Excess**
 Length of enclosed superstructure forward of amidships = **Nil**
 „ „ aft of „ = **Nil**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{190.53}{18} \left(\frac{.75 - .0852}{2} \right) = -7.04$
 If limited on account of midship superstructure. **Yes. No allowance.**
 If limited to maximum allowance of 1 1/2 ins. per 100 ft. **✓**

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line SEE OVERLEAF. $\Delta = 664$	Correction for coefficient Nil
Depth to Freeboard Deck = 14.78	Tons per inch immersion at summer load water line SEE OVERLEAF. $T = 7.12$	Depth Correction 5.66
Summer freeboard = 1.58	Deduction = $\frac{\Delta}{40 T}$ inches $= \frac{664}{40 \times 7.12} = 2.33$	Deduction for superstructures 1.76
Moulded draught (d) = 13.20	= 2 1/4	Sheer correction ✓
Deduction for Tropical freeboard and addition for		Round of Beam correction 0.17
Winter freeboard = $\frac{d}{4}$ inches = 3.30 = 3 1/4		Correction for Thickness of Deck amidships ✓
Addition for Winter North Atlantic Freeboard (if required) =		Other corrections, scantlings, etc. ✓
		Summer Freeboard = 19.06

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

Tropical Fresh Water Line above Centre of Disc	✓	Tropical Fresh Water Freeboard	7
Fresh Water Line	2 1/4	Fresh Water	4 3/4
Tropical Line	✓	Tropical	✓
Winter Line below	3 1/4	Winter	10 1/4
Winter North Atlantic Line	✓	Winter North Atlantic	✓

Tulipfield

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.

MLD. DRAFT.	DISPL ^{MT} .	T. P. I.
13'-4 $\frac{3}{4}$ "	699 TONS.	7.3.
13'-1 $\frac{3}{4}$ "	660 "	7.1.
12'-4 $\frac{3}{4}$ "	619 "	6.9.

Forecastle

Enclosed length = 24.00 ✓
 $3.5 \times 2.75 = .88$
 $\frac{.88}{11.0} = .008$
 24.88' = equiv. enclosed.

11/4 draught = 13.20

13.646	=	699	7.3.
13.146	=	660	7.1
-500		39	0.2

$\frac{.054}{.5} \times 39 = 4 + 660 = 664$

$\frac{.054}{.5} \times 0.2 = .02 + 7.1 = 7.12$

272.8
 82.2
 88.
 0
 11.
 88.2
 94.4

Trade of ship

carrying petroleum sludge in & between ports in the British Isles.

Names of sister ships

Builder's name and yard number

Recherstieg. No 543.

Owners

British Whales Process Co. Ltd.

Fee £

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Foundation