

State if Report is sent on the Machinery of the Vessel.....YES

No. 19162

Last Survey 4TH MARCH 1930

TWIN SCREW MOTOR "ATHELKNIGHT" MACHINERY AFT

State Type of Erections POOP, BRIDGE & F'CLE

Built at PORT GLASGOW

Launched **DEC-30TH 1929.** Yard No. **394**

Builders **ROBERT DUNCAN & CO LTD**

Owners UNITED MOLASSES CO LTD

Managers ✓

(Where necessary to be entered in Reg. Book.)

Residence LONDON

Port of Registry **LIVERPOOL**

If surveyed while building, afloat, or in dry dock

BUILDING & AFLOAT.

[illegible]

PILLARS AND DECKS.									
			INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.				
PILLARS, No. of Rows.....			PILLARS IN						
" in 'tween Decks, Size and Spacing.....			FORE & AFT ENDS AS PER APPROVED PLAN						
" " " " "									
" in Holds " "									
" " " " "									
Centre Line Bulkhead.									
Stiffeners and Spacing.....			BA 6 1/2 3 36 AND AS 014715HT To BA 9 3 46 APPROVED.						
Plating, thickness of			51 - 36						
STRINGERS AND DECKS.									
Uppermost Continuous Deck.									
Stringer Plate, breadth and thickness in Wells			72 1/2 x 85		APP ^d 69 x 74				
" " " " in way of Bridge			✓						
" Angle in Wells			7 7 85						
Thickness of Plating abreast Deck openings in way of Wells			35 RAKES 80 1 " 45		APP ^d 74				
Thickness of Plating abreast Deck openings in way of Bridge			1 " 58						
Thickness of Plating within line of openings...			45						
If Sheathed, material and thickness			NOT SHEATHED						
Second Deck.									
Stringer Plate, breadth and thickness in Wells ..			74 x 46						
Stringer Plate, breadth and thickness in way of Bridge ..									
Thickness of Plating abreast Deck openings in way of Wells									
Thickness of Plating abreast Deck openings in way of Bridge									
Thickness of Plating within line of openings...									
If Sheathed, material and thickness									
Third Deck.									
Stringer Plate, breadth and thickness.....									
If Plated, state thickness.....									
Fourth Deck.									
Stringer Plate, breadth and thickness.....									
If Plated, state thickness									
Poop Deck.									
Stringer Plate, breadth and thickness			39 x 38						
Plating, Sheathing, material and thickness ...			32 WITH 5 x 2 1/2 P.P.						
Bridge Deck.									
Stringer Plate, breadth and thickness.....			49 x 44						
Plating, Sheathing, material and thickness ...			34 WITH 5 x 2 1/2 P.P.						
Forecastle Deck.									
Stringer Plate, breadth and thickness.....			36 x 38						
Plating, Sheathing, material and thickness ...			26 WITH 5 x 3 P.P.						

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled? <i>No.</i>			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.	
FLAT PLATE KEEL	54	1.01	.80	.80		DOUBLE	1	4	FIVE	1 1/8	5	LAPPED.
" <i>Does (if any)</i>												
BOTTOM PLATING, No. of Strakes	FOUR	.68	.52	.52	} BOSS PLATING .80 BUTTS QUAD RIV ^d	"	7/8	3 1/2	QUADRUPLE	7/8	3 1/2	"
BILGE PLATING, No. of Strakes	ONE	.68	.52	.52		"	"	"	"	"	"	"
SIDE PLATING, No. of Strakes	FOUR	.64	.48	.48		TREBLE & DOUBLE	"	"	"	"	"	"
UPPER DECK, Sheer-strake in Wells	52	1.25	.48	.48		DOUBLE	1 1/8	4 1/2	QUINTUPLE	1 1/8	5	"
UPPER DECK, Sheer-strake in Bridge ...												
STRAKE BELOW Sheer-strake in Wells	52	.96	.48	.48		"	1	3 1/2	"	1	4 1/2	"
STRAKE BELOW Sheer-strake in Bridge ...												
POOP SIDE PLATING42			SINGLE	7/8	3 1/2	SINGLE	7/8	3 1/8	"
BRIDGE SIDE PLATING ...	54 1/4					"	"	"	"	"	"	"
FOREC'TLE SIDE PLATING			.44.			"	"	"	"	"	"	"

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c) TEN.

„ Deck next below SIX

As per Rule EIGHT.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar		FLAT PLATE KEEL		
STEM	ROLLED	10 1/2 x 2 3/4		
STERN FRAME {	CAST	TWIN SCREW AND PROPELLOR BRACKETS		
{ Propeller Post				
{ Rudder	STEEL	11 x 3 3/8	STALWERK KREIGER.	
RUDDER—A x D		635.76		
Speed of Vessel		11 KNOTS.		
RUDDER mainpiece at head ...		12 3/8	SWITHOWITZER BERG	
" " heel ...		9 1/2	4 EISEN	
" how constructed		FORGED ARMS & MAINPIECE		
" double or single plate		SINGLE		
" coupling, vertical or horizontal		HORIZONTAL		

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *(OPEN HEARTH PROCESS)*
STEEL CO OF SCOTLAND, DUNLOP, COLVILLE, LANARKSHIRE, FRODINGHAM

Has the Steel been tested as required by the Rules? YES.

EQUIPMENT No. 48754										LETTER dt	ANCHORS.				
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
32628	1st Bower ...	81	3	0	Stockless			59	10	0	0	81½	BYERS IMPROVED	PER W. L. BYERS & CO. LTD	SUNDERLAND 29/1/29 J. H. BUTLER.
32629	2nd „ ...	81	2	0	—			59	10	0	0	81½	“	“	“ 29/1/29 “
32676	3rd „ ...	69	3	0	—			53	12	2	0	69½	“	“	“ 13/2/29 “
	Collective weight.	233	0	0								232			
44899	Stream	23	2	2	6	0	7	23	10	0	0	23½	IRON STOCK	RSYKES & SON LTD	CRADLEY HEATH 29/1/29 L. E. PAUL.

CHAIN CABLES.												HAWSERS AND WARPS.					
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.	
	Length.	Diam.	Statu- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Ins.		Fathoms.	Ins.
33799	285	2 1/2	112 1/2	157 1/2	890.0.21	940	300	2 1/2	STAB LINK	RYKES & SON LTD	CARDIFF	29/1/29	6	85	130	6	
33434	15	2 1/2	"	"	48.3.21				"	"	"	29/1/29	"	20	100	2 3/4	
33437	No END ATTACHMENTS		"	"	939.0.14				OPEN	"	"	29/1/29	"	"	"	"	
Iron Stream } Chain } Steel Wire }	120	5 1/4		65			120	5 1/4									

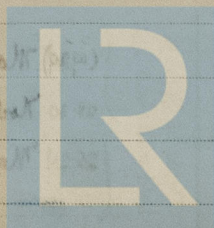
Steering Gear, Steam ELECTRIC BY THOS E THRIGE, ODENSE, DENMARK.										Steering Gear, Hand COMBINED BY THOS E THRIGE									
Boats 4-25' LIFEBOATS 4 2-18' DINGHY'S										Windlass STEAM BY EMERSON WALKER THOMPSON.									
Ceiling in Holds, thickness and material NIL.										Cargo Battens, thickness, material and spacing 6x2 W. P SPACED 9"									
Oil Hatchways. (Upper Deck) CHANNEL COAMING TO MAIN TANKS, PLATES TO SUMMER TANKS										Thickness of Hatches MAIN TANKS 50 STIFFENED.									
Size of No. 1 Hatchway (Forward) 9'-2" x 12'-0" No. 2										No. 3 7'-7-4 3/4									
Number of Shifting Beams and/or Fore and Afters										No. 4 5'-7-4 3/4									
										No. 5 15'-4'-4" 41 CHANNEL COAMING.									
										No. 6 18x.40 COAMING.									
										Builder's Signature Robert Duncan & Co									

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel YES.										(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo									
This vessel has been built in accordance with the approved plans and in general conformity with the Society's rules for the class contemplated.										The workmanship is good and the materials used throughout in the vessels construction are also good. The freeboard has been verified and the marks cut in on the vessels sides.									
The cargo tanks, summer tanks, oil fuel bunkers, cofferdams, double bottom tanks & fore & after peak tanks have been tested to rule requirements & found satisfactory.										Three of the compartments of the double bottom under engines, side bunkers aft, & deep tanks aft have been tested as required for oil fuel compartments & Sec 20 of the rules complied with.									
Flash point above 150°F.																			

The amount of Entry Fee £ 11 : 0 : 0										Fees applied for, 8 th MARCH 1930									
Special Survey Fee £ 635 : 5 : 0										I am of opinion the Vessel should be Classed 100 A.I.									
FREEBOARD 11 13 4										CARRYING MOLASSES OR PETROLEUM IN BULK LONGITUDINAL FRAMING.									
Travelling Expenses, if any £										Received by me, 1930									
State whether the Vessel has been built under Special Survey YES.										Signature Kenneth Inglis									
Certificate to be sent to GREENOCK OFFICE										Date of issue 14/3/30									

Committee's Minute GLASGOW 11 MAR 1930										Character assigned 1-100 A.I. 3.30.									
Carrying Molasses or Petroleum in Bulk										Lloyd's A & C									
Longitudinal Framing										+ L.M.C. 3.30.									

The Surveyor is requested not to write on or below the Committee's Minute.



GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

This vessel is a sister vessel of the T. S. M. V. ATHELKNIGHT Messrs Robert Duncan & Co No 388 & Greenock first entry report No 18991.

The following approved plans together with the midship section & profile & decks as built & the forging reports are enclosed herewith.

Midship Section.

Profile & decks.

Amended profile.

Stem frame, rudder & stem.

Propeller Bracket.

Bossing plan.

Fore & End Longitudinals

Aft End.

Web frame at frame 18.

Engine Seating.

Cofferdam aft.

Pumping arrangement

Particulars of Drop Test of Cast Steel Anchors, viz. :—
1st Bower 47-3-10 : M.B. : 7160 : 25.10.29.
2nd " 47-1-13 : K.H. : 7030 : 15.10.29.
3rd " 40-0-25 : M.B. : 7291 : 27.11.29.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 118.9 ft., R.Q.D. 1 ft., Bridge 34.4 ft., Forecastle 47.9 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated.

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 2 DKS (ST) & WEB FRAMES.

Official No. 161,143. : Signal Letters : Is bottom of Vessel coated with cement if not give particulars of composition CEMENT FILLETS IN CARGO TANKS & OIL COMPARTMENTS OF DOUBLE BOTTOM CEMENT IN DOUBLE BOTTOM OTHERWISE

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	*Water Capacity. Tons.	Where Fitted.	*Length. Feet.	*Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,		219
Double bottom, under Engines and Boilers,			After peak tank,		434
Double bottom, if under Engines only, OROIL FUEL	82.5	331	Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tanks forward, (OROIL FUEL)	48.5	701.
Double bottom, forward,			Other tanks, if fitted, (If necessary, furnish further information by sketch.)		
Total capacity of double bottom		331			

* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 3282

Date 13th March 1929

Dates of Surveys held while building

(1929) May 23 June 11-15 July 21-26 31 Aug. 1-6 11-14 19-21 22-23 26-27 28-30 Sept. 6-11 12-16 18-20 26-27 Oct. 1-4 9-11 14-16 22-23 25-28 30 Nov. 1-2 4-5 8-11 12-13 15-18 19-21 23-25 26-27 28-29 Dec. 2-3 5-6 9-10 11-12 13-16 18-19 20-22 24-26 30 (1930) Jan. 4-21 28 Feb. 4-11 14-19 25-29 Mar. 6-4

Total No. of Visits 85

Rpt. 1*.

LOYD'S REGISTER.)

G.R. 180.

T. S. M. V. "ATHELKNIGHT" R. DUNCAN & Co's No 394.

PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.	AMIDSHIPS.			ENDS.			AMIDSHIPS.			ENDS.			Rivets in Longitudinal Frames.		Rivets in Brackets to Bulkheads.	
	In Ship.			In Ship.			Per Rule or as approved.			Per Rule or as approved.			Diam. Spacing.		Number. Diameter.	
Framing of L. L. or C.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
Frames in Bridge 'tween Decks ...	6 1/2	3	36				6 1/2	3	36				7/8	5/4	5/4	✓
Frames from Uppermost Continuous Deck No. 1	8	3 1/2	38	8	3 1/2	38	7 1/2	3 1/2	45	7 1/2	3 1/2	45	1 1/8	6 3/4	5 1/4 6 3/4	8 7/8
" 2	8	3 1/2	38	8	3 1/2	38	7 1/2	3 1/2	45	7 1/2	3 1/2	45	1 1/8	6 3/4	5 1/4 6 3/4	8 7/8
" 3	8	3 1/2	38	8	3 1/2	38	7 1/2	3 1/2	45	7 1/2	3 1/2	45	1	6	5 1/4 6	8 7/8
" 4	8	3 1/2	38	8	3 1/2	38	7 1/2	3 1/2	45	7 1/2	3 1/2	45	7/8	5 1/4	5 1/4	8 7/8
" 5	8	3 1/2	38	8	3 1/2	38	7 1/2	3 1/2	45	7 1/2	3 1/2	45	7/8	5 1/4	5 1/4	8 7/8
" 6	8	3 1/2	46	8	3 1/2	46	8	3 1/2	46	8	3 1/2	46	7/8	"	4" FOR DRINS	"
" 7	8 1/2	"	45	8 1/2	"	45	8 1/2	"	45	8 1/2	"	45	"	"	"	9
" 8	9	"	43	9	"	43	9	"	43	9	"	43	"	"	"	"
" 9	9 1/2	"	45	9 1/2	"	45	9 1/2	"	45	9 1/2	"	45	"	"	"	10
" 10	"	"	"	"	"	"	"	"	"	"	"	"	"	"	3 1/8 FOR DRINS	"
" 11	10	"	"	10	"	"	10	"	"	10	"	"	"	"	"	"
" 12	"	"	48	11	"	59	"	"	48	11 1/2	"	50	"	"	"	10
" 13	12	"	53	12	"	46	12	"	53	12	"	46	"	"	"	13
" 14	12 x 4 x 4	48	✓	✓	✓	✓	12 x 4 x 4	48	✓	✓	✓	✓	"	"	"	14
Nos. 15, 17, 18, 20, 21, 23, 24	15 x 4 x 4	41	✓	12	3 1/2	52	15 x 4 x 4	41	✓	12	3 1/2	52	"	"	"	17
Nos. 16, 19, 22	55 x 42	✓	✓	✓	✓	✓	55 x 42	✓	✓	✓	✓	✓	"	"	5 1/4	✓
Spacing of Longitudinal Frames	Amidships			At Ends			31" ON BOTTOM & 30" ON SIDES.			NOT MORE THAN 31" & 30"						

Double Bottoms L. L. or C.	Tank Top Longitudinals															
	Bottom															
Spacing of Longitudinals	Amidships															
	At Ends															

Transverses.		+6" FOR OMISSION OF BECKS.		Rivets in Lugs to Shell	
In Bridge	Depth and Thickness	21 x 38	15 x 38		
'tween Decks	Face Angles	3 1/2 3 1/2 40	3 1/2 3 1/2 40		
	Lugs to Shell	3 3 38	3 3 38		
In Upper 'tween Decks.	Depth and Thickness	25 x 40	19 x 40		
	Face Angles	3 1/2 3 1/2 41	3 1/2 3 1/2 41		
	Lugs to Shell	3 1/2 3 40	3 1/2 3 40		
In Hold.	Depth and Thickness	36 x 46	36 x 46		
	Face Angles	7 3 1/2 50	7 3 1/2 50		
	Lugs to Shell	6 6 46	6 6 46		
	Back Bars	✓	✓		
	Brackets	2 BECKS AT 44	2 BECKS AT 44		
Spacing of Transverse Frames		9' 4 1/2	9' 4 1/2		

Longitudinal Beams of L. L. or C.	Bridge Deck ...	6 3 32			6 3 32			Spacing.		In Ships.		As approved.	
		Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Plate.	Angles.	Plate.	Angles.
	Upper	7	3 1/2	30	7	3 1/2	30	7	3 1/2	30	31	11 x 38	6 x 3 1/2 40
	Second	7 1/2	3	37	7 1/2	3	37	7 1/2	3	37	31	11 x 38	6 x 3 1/2 40
	Third												

The particulars of framing in peaks (if ordinary), Floors, Centre Girders, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.

NOTE:—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, etc., on the first page.

500,12,27.—T.

Dated 27th February 1930.

(265412) Wt. 2855/160 Gp. 144 2000 5.29 W & S Ltd.

Starting Air Receivers, No. 2.

Total cubic capacity 1300 CF

Internal diameter 6-4 1/2

Thickness 1 1/2

Seamless, lap welded or riveted longitudinal joint Riveted

Material S

Range of tensile strength 28-32

Working pressure by Rules 3.56

W1166-0085