

STEEL ~~STEAMER~~ OF MOTORSHIP.

Received at London Office

25 JUL 1935

State if Report has been sent on the Freeboard of the Vessel. YesState if Report is sent on the Machinery of the Vessel. YesDate of completion of report 22nd July 1935 Port of Oslo No. 4580
Survey held at Oslo Date First Survey 24/8 - 1934 Last Survey 13/7 - 1935On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) single screw motor vessel "HAakon HAuan", mach. aft.
State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full scantling State Type of Erections Prop. bridge & j/c

TONNAGE under 6021.18 CLASS 100 A1 State if with freeboard as condition of Class ✓ Built at Oslo
Tonnage Deck...
Do. of space or spaces between Tonnage Deck and Upper Deck.
Total
Gross Tonnage 6582.15
Nett Register Tonnage 3705.26
1st Longitudinal Number (L x D) = 13634.5
2nd Numeral L x (B + D) = 36426.5
Framing Depth "d," at middle of length. See Sec. 3 (1d) 12.15
Proportions—Depth to Length—Uppermost continuous deck to top of keel 12.15
Do. Long Bridge to top of keel
Draught Moulded
Residence Oslo
Port of Registry Oslo
If surveyed while building, afloat, and in dry dock yes

Launched 15/5/35 Yard No. 465
Builders M/s Akers Møk. Verhisted
Owners Norlandske Petroleumsselskab
Managers
(Where necessary to be entered in Reg. Book.)

REGISTERED DIMENSIONS.
FEET.

Length 409.1
Breadth 56.3
Depth 33.8

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	30			✓	Bracket Floors, Frame	-	-	-	
" " from $\frac{1}{2}$ length to Collision bulkhead	25			✓	" " Reversed Frame	-	-	-	
" " in peaks	24			✓	" " Vertical Struts	-	-	-	
SIDE FRAMING.	25			✓	Centre Girder, depth and thickness amidships			.54	✓
Frame Amidships, Angle, <u>E</u> or <u>C</u>	9	3½	.44	sides ✓	" " top Angles	3½	3½	.50	✓
" " Extends up to	10	3½	.50	bottom ✓	" " bottom Angles				
Reversed Frame Amidships, Angle	10	3½	.54		Side Girders, No. each side and thickness	Two	.48	.50	✓
" " Extends up to					Margin Plate depth (excl. of flange) and thickness			.50	✓
Depth of Framing Girder					" " Vertical Angle to Tank side Bracket abaft $\frac{1}{2}$ len. from stem				
Frames in Uppermost Continuous 'tween Decks, Angle, <u>E</u> or <u>C</u>					" " Vertical Angle to Tank side Bracket forward $\frac{1}{2}$ len. from stem				
" " Second 'tween Decks, Angle, <u>E</u> or <u>C</u>					" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem				
" " Third " " " "					" " Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem				
Framing in Peaks, Angle, <u>E</u> or <u>C</u>	9	3½	.44	✓	Tank Side Brackets, height above base line at toe of Frame and thickness				
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8	5¼		✓	INNER BOTTOM PLATING, <u>richy space</u>				
State if Frame Joggled	Yes			✓	Breadth and thickness of Middle Line Strake		78	.50	✓
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	O.T. flat and stringers			✓	Thickness of remainder in Holds			.70	✓
STRENGTHENING OF BOTTOM FORWARD. State Particulars	Bottom plating amidships thickness, and 2 extra girders on each side from 125-134 also deep floor from 138			✓	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?				✓
SINGLE BOTTOM.					BEAMS.				
Floors, Depth and thickness at mid-line in Holds					Uppermost Continuous Deck, amidships				
Height of Brackets at side above base line at toe of frame					Centre Tanks in Wells, Angle, <u>E</u> or <u>C</u>	7	3½	.42	✓
Middle Line Keelson, on Floors, Angles, <u>E</u> or <u>C</u>					Side " " in way of Bridge, Angle, <u>E</u> or <u>C</u>	7	3½	.40	✓
" " Through Plate or Intercoastal Plate					Spacing			every frame	✓
" " Foundation Plate on Floors					Second Deck, amidships, Angle, <u>E</u> or <u>C</u>				
" " Flat Plate Keel Angles	6	6	.52	✓	Spacing				
Side Keelsons, No. each side		one		✓	Third Deck, amidships, Angle, <u>E</u> or <u>C</u>				
" " thickness of Intercoastal Plate			.50	✓	Spacing				
" " Angles <u>Tand N°1 single</u> Remainder double	6	6	.52	✓	Fourth Deck, amidships, Angle, <u>E</u> or <u>C</u>				
DOUBLE BOTTOM. in E.R.					Spacing				
Solid Floors, thickness and spacing			.40 every ft.	✓	Poop Deck, Angle, <u>E</u> or <u>C</u>	8	3	.34	✓
" " Are Frame and Reversed Frame joggled?	Yes			✓	Spacing			300 24	✓
Bracket Floors, breadth and thickness at middle line					Bridge Deck, Angle, <u>E</u> or <u>C</u>	6	3	.40	✓
" " breadth and thickness at margin plate					Spacing				
					Forecastle Deck, Angle, <u>E</u> or <u>C</u>	7	3	.40	✓
					Spacing			25	✓

PILLARS AND DECKS.

	INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.			Any Departure from Approved Plans to be Noted.
PILLARS , No. of Rows.....	-	-	-		Stringer Plate, breadth and thickness in way of Bridge	-	-	-	
" in 'tween Decks, Size and Spacing.....	-	-	-		Thickness of Plating abreast Deck openings in way of Wells	-	-	-	
" " " " " "	-	-	-		Thickness of Plating abreast Deck openings in way of Bridge	-	-	-	
" in Holds " "	-	-	-		Thickness of Plating within line of openings.....	-	-	-	
<i>Side tank longitudinal</i> Centre Line Bulkheads	-	-	-		If Sheathed, material and thickness	-	-	-	
Stiffeners and Spacing.....	9	3½	.38	30" in No. 1 tank	Third Deck.	-	-	-	
Plating, thickness of .....		.44	.52		Stringer Plate, breadth and thickness.....	-	-	-	
		.42	.50		If Plated, state thickness.....	-	-	-	
STRINGERS AND DECKS.					Fourth Deck.	-	-	-	
Uppermost Continuous Deck.					Stringer Plate, breadth and thickness.....	-	-	-	
Stringer Plate, breadth and thickness in Wells	67	.78	✓		If Plated, state thickness	-	-	-	
" " " " in way of Bridge		.86	✓		Poop Deck.	-	-	-	
" Angle in Wells	6	6	.82	✓	Stringer Plate, breadth and thickness.....		.36	✓	
Thickness of Plating abreast Deck openings in way of Wells <i>reckoned from E</i>.....	.48	.64	.64	.78	Plating, Sheathing, material and thickness	30x28	3"	✓	
Thickness of Plating abreast Deck openings in way of Bridge	-	-	-		Bridge Deck.	-	-	-	
Thickness of Plating within line of openings...	-	-	-		Stringer Plate, breadth and thickness.....	57	.40	✓	
If Sheathed, material and thickness	-	-	-		Plating, Sheathing, material and thickness .....		.32	✓	
Second Deck.	-	-	-		Forecastle Deck.	-	-	-	
Stringer Plate, breadth and thickness in Wells...	-	-	-		Stringer Plate, breadth and thickness.....		.36	✓	
	-	-	-		Plating, Sheathing, material and thickness .....	.36	.34	✓	

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <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	76	.86	.72	.76	✓	<i>Double</i> ✓	1	3 3/4 ✓	3 R ✓	1	4 ✓	<i>Double strapped.</i>	
" DBLG. (if any)													
<i>A</i> } 87 1/2			.54										
BOTTOM PLATING, No. <i>F</i> 85		.64	.48	.52	✓	<i>Double</i>	7/8	3 3/8 ✓	4 R ✓	7/8	3 1/2 ✓	<i>Lapped</i>	
of Strakes <i>3</i>)						— " —	7/8	3 3/8	4 R ✓	7/8	3 1/2	— " —	
BILGE PLATING, No. of <i>D</i> 80		.64	.50	.52	✓	— " —	7/8	3 3/8	3 R ✓	7/8	3 3/8	— " —	
Strakes <i>1</i>)	<i>E</i> 85			.50									
SIDE PLATING, No. of <i>F</i> 80		.60	.50	.50	✓	— " —	7/8	3 3/8	3 R ✓	7/8	3 3/8	— " —	
Strakes <i>3</i>)	<i>G</i> 74			.48		— " —	1	3 3/4	3 R ✓	1	4	<i>Double straps</i>	
UPPER DECK, Sheer- strake in Wells.....)	75	.80	.52	.40	✓	— " —	1	3 3/4	3 R ✓	1 1/8	4 1/2	— " —	
UPPER DECK, Sheer- strake in Bridge ...)		1.04	.80		✓	— " —	1 1/8	3 5/8	4 R ✓	1	4	<i>Lapped</i>	
STRAKE BELOW Sheer- strake in Wells.....)	74	.70	.46	.46	✓	— " —							
STRAKE BELOW Sheer- strake in Bridge ...)	74	.70			✓	— " —							
POOP SIDE PLATING .....				.40	✓	<i>Single</i>	3/4	3	2 R	3/4	3	<i>Lapped</i>
BRIDGE SIDE PLATING ...		.42	.48		✓	<i>Single</i>	3/4	3	2 R	3/4	3	<i>Lapped</i>
FORECASTLE SIDE PLATING			.42		✓	<i>Single</i>	3/4	3	2 R	3/4	3	<i>Lapped</i>	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—					
Extending to Upper Deck (Sec. 3 c).....		15	12		
,, Deck next below.....		1			
As per Rule.....					
	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<i>Transverse.</i> MIDSHIP BULKH'D, Upper tween decks	<i>vert. plating</i> .42	9x3½	.38	30x31	✓
,, Second ,,	—			48x44	8'6"
,, Third ,,	—			57x44	7'3"
,, Holds .....	.50	"	"	36x44	7'9"
COLLISION (in Hold) .....	.44	8x3x.44	24	27x.44	and deck ab. 8'0"
AFTER PEAK .....	.50	8x3x.44	24	40x.44	and deck ab. 9'6"

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar		11½ x 3½		✓
STEM	casting	9½ x 2½		✓
STEER FRAME { Propeller Post		11½ x 20½	Thomson	✓
{ Rudder		12 x 13½	Veritas	✓
RUDDER AXD		767.27		✓
Speed of Vessel		11 knots		✓
RUDDER mainpiece at head ...		13 x 11½	Thomson	✓
" " heel ...		9½ x 11½	Veritas	✓
" how constructed		Cast frame with double plate		✓
" double or single plate coupling, vertical or horizontal.....		Double .46		✓

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
	Cargo Fleet Iron Co. Ltd.; Colville's Ltd.; Cassell Iron Co. Ltd.; Dorman Long & Co. Ltd.; Durham Steel & Iron Co. Ltd.; The Lanarkshire Steel Co. Ltd.; Thimblepiece Iron Co. Ltd.; The Steel Company of Scotland.
	Has the Steel been tested as required by the Rules? Yes

EQUIPMENT No. 37856, at										LETTER		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.				
94076	1st Bower ...	68	2	14	✓			53	1	3	14	✓	68	{ Stockless Breadnought all forged	S. Taylor & Son (Rear of Hull) Ltd.	Hatterton 23/1/35 H. Green
94082	2nd „ ...	68	1	0	✓			52	15	2	14	✓	68			
94080	3rd „ ...	58	2	7	✓			47	11	1	0	✓	58½			
24	Collective weight.	194	5	21	✓							✓	194½			
94081	Stream	24	3	21	✓			24	15	0	0	✓	24	—	—	—

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.	Statutory.	Breaking.	Supplied.		Per Rule.	Length.	Diam.	Length.					Cir.	Length.		Cir.			
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.		
50677	270	2 5/16	9 1/4	134 3/4	721.0	21	720 3/4		270	2 5/16	Stud links	—	Bradley, Heath 22/2/35	TOWLINE	120	4 3/4	65.5	120	4 3/4		
														HAWSERS & WARPS	2 x 90	2 3/4	15.5	2 x 90	2 3/4		
															2 x 90	2 1/2	11.3	2 x 90	2 1/2		
Iron Stream Chain or Steel Wire	90	5"		52.8					90	5"											

Steering Gear, Steam *Atlas-Werke* 2112 mm. rad. of quadrant ✓
 260 mm. dia x 250 mm stroke Steering Gear, Hand *Screw gear & blocks tackle* ✓
 2 off 26'-0" x 8'-0" x 3'-2" life boats
 Boats 1 18'-0" dinghy
 20'-0" motor boat Steering Chains, Size and Test — Windlass 10' x 14", *Swing M.V. type* ✓
 Ceiling in Holds, thickness and material — Cargo Battens, thickness, material and spacing —
 Cargo Hatchways.—(Upper Deck) *Steel plates & angles* Thickness of Hatches *Steel covers .50."* ✓
 Size of No. 1 Hatchway (Forward) 8'-4" x 15'-8" No. 2 0.T. hatchways 6'-6" x 4'-0" No. 4 No. 5 No. 6
 Number of Shifting Beams and/or Fore and Afters —

P. P. AKERS MEK. VERKSTED
P. P. Akers
 Builder's Signature ADM. DIREKTOR

GENERAL DECLARATION This vessel has been built in accordance with the approved plans and with instructions as per Secretary's letter and with the Society's Rules.
 The materials and workmanship are good; the materials employed in the construction have been tested by the Society's Surveyors. All the oil tanks, cofferdams, bunkers, peak tanks, deep and double bottom tanks aft have been tested in accordance with the Rules.
 The reports on forgings & castings are enclosed herewith.

The amount of Entry Fee *Rs. 199.00*
 Special Survey Fee.... *£ 10881.30*
 Travelling Expenses, if any *£ 69.65*
 Fees applied for, 22/7/1935
 Received by me, 31.7.35
 We are of opinion the Vessel should be Classed *100 A 1*
 Carrying petroleum in bulk
 Ferrous hull
 State whether the Vessel has been built under Special Survey Yes
 Signature *P. P. Akers*
 Surveyor to Lloyd's Register of Shipping.
 Certificate to be sent to *Oslo* Date of issue *11/10/35*

Committee's Minute *Deferred* FRI. 16 AUG 1935
 Character assigned *My + 100 A 1*
 Carrying petroleum in bulk
 Lloyd's a.s.c. + Lmb 7.35
 200 - 150th
 Oil Eng. Ch.
 FRI. 11 OCT 1935

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.)

Particulars of **Drop Test** of Cast Steel Anchors, viz.:—
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower ☒
2nd " ☒
3rd " ☒

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 95.5 ft., R.Q.D. ☒ ft., Bridge 40 ft., Forecastle 34 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) 1 dk. stl.

Official No. ; Signal Letters L. I. Z. Q. Is bottom of Vessel coated with cement ho if not g
particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	28'-0"	183
Double bottom, under Engines and Boilers, lub. oil	25'-0"	21 m ³	After peak tank,	18'-0"	244
Double bottom, if under Engines only, feed water	21'-6"	26 "	Deep tank, aft, in hold room	20'-0"	340
Double bottom, if under Boilers only, fuel oil	40'-0"	124 "	Deep tank, forward,	18'-9"	407
Double bottom, forward,	26'-6"		Other tanks, if fitted,		
	Total capacity of double bottom	171 m ³	(If necessary, furnish further information by sketch.)		

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

Order for Special Survey No.

Date March 8th 1934.

Dates of Surveys held while building

1934: 24/8, 18/9, October 2, 3, 12, 16, 20, 25, 26, 27, 30th; November 7, 13, 14, 15, 19, 27, 28, 30th.
December 1, 6, 7, 10, 12, 13, 21, 22, 27th.
1935: January: 14(2), 15, 16, 17, 23(2), 24, 26th. February 5, 6(2), 7(2), 14, 18, 19, 20, 25th.
March 2, 5, 8, 13(2), 14, 15, 16, 18, 19, 20, 21, 22, 26, 28, 29; April 2, 3, 4, 5, 6, 10, 11, 12, 13, 15, 17, 24, 25, 30th. May 16, 18, 20, 21, 22(2) 29th. June 1, 4, 13, 14, 17, 20, 21, 22, 25, 27th. July 5th, 9th, 10, 11, 13th. Total No. of Visits 18