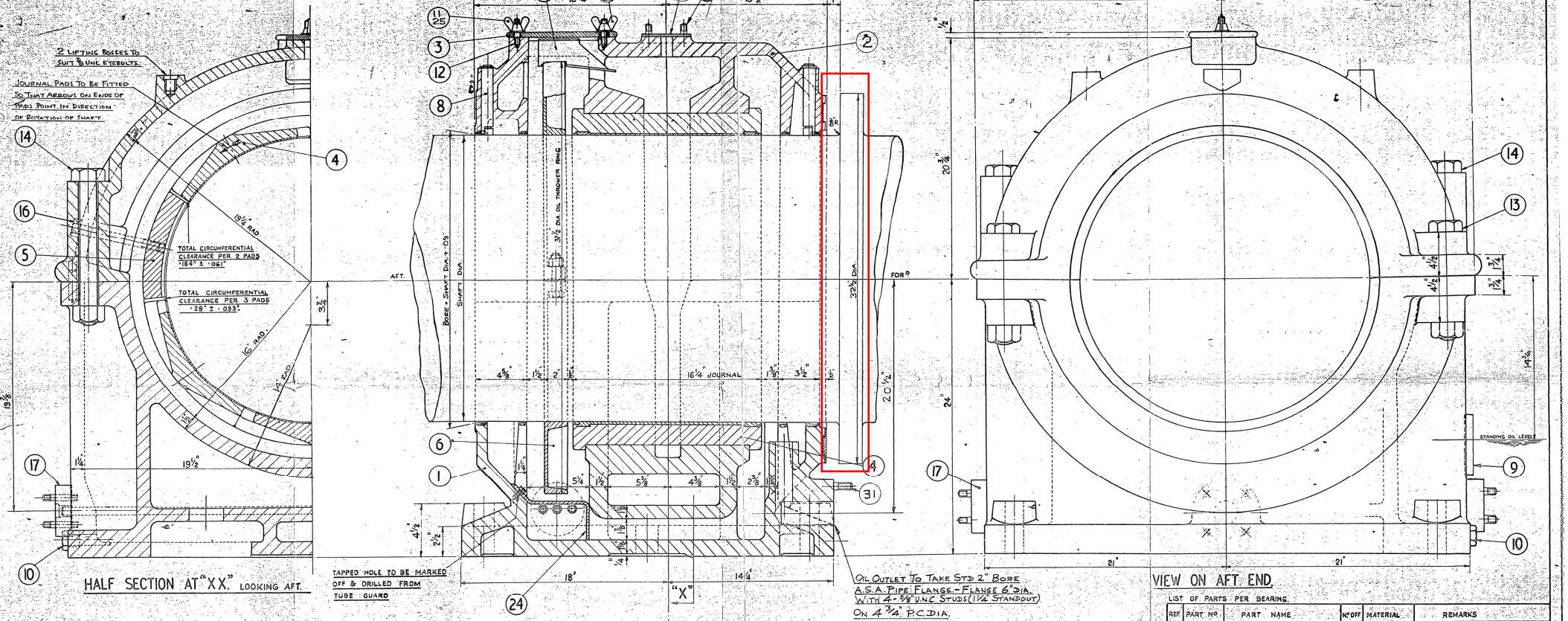


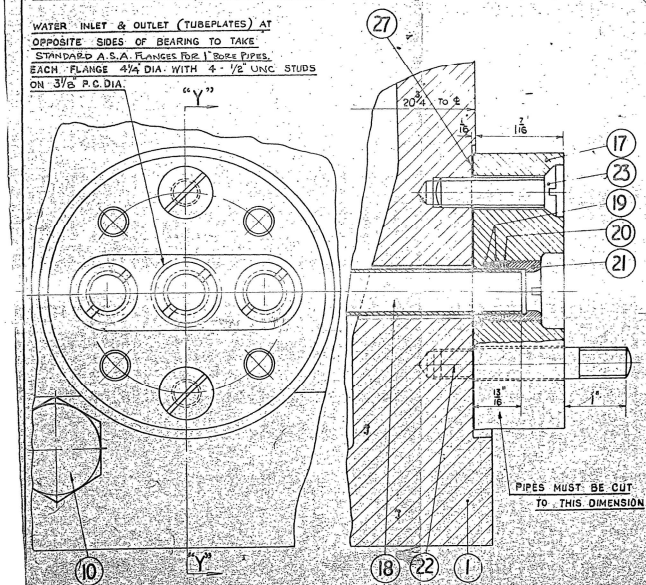
HALF SECTION AT "XX" LOOKING AFT.

VIEW ON AFT END.

WATER TEST PRESSURE
INDIVIDUAL TUBES TESTED AT — 1000 LBS/SQ. IN.
AFTER COMPLETION OF SYSTEM — 50 LBS/SQ. IN.

WATER INLET & OUTLET (TUBEPLATES) AT OPPOSITE SIDES OF BEARING TO TAKE STANDARD A.S.A. FLANGES FOR 1" BORE PIPES. EACH FLANGE 4¼" DIA. WITH 4-½" UNC STUDS ON 3⅛" P.C. DIA.

6-1 13/16" DIA. HOLES FOR 1¾" DIA. HOLDING DOWN BOLTS.

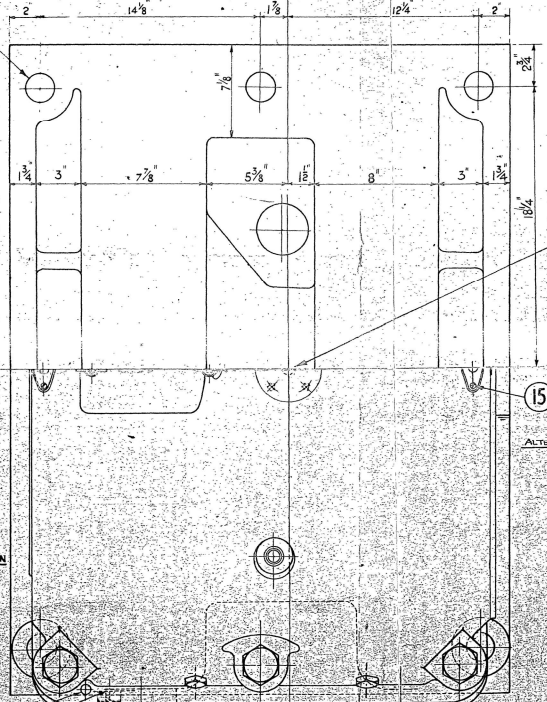


PART OUTSIDE VIEW.

PART SECTION AT "Y.Y."

PART VIEWS SHOWING TUBEPLATE

SCALE: FULL SIZE

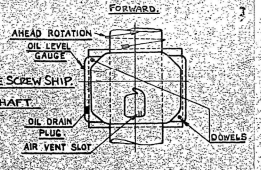


THESE BEARINGS ARE OF THE SELF LUBRICATING, SELF CONTAINED TYPE, PROVIDED WITH COOLING TUBES CIRCULATING SEA, OR RIVER WATER, & WILL BE OPERATED ON THIS PRINCIPLE FOR NORMAL DUTY.
THE GRAVITY CIRCULATING OIL SYSTEM IS FITTED IN ORDER TO ASSIST LUBRICATION & TO MAKE SURE THAT THE BEARINGS ARE PROPERLY LUBRICATED AT BREAKAWAY SPEED AFTER, & WHEN THE SHAFTS HAVE BEEN STALLED DUE TO HEAVY ICE CONDITIONS.

HALF INVERTED PLAN.

OIL INLET TO TAKE STD 1" BORE A.S.A. FLANGE - FLANGE 4½" DIA. WITH 4-½" U.N.C STUDS (1" STANDOUT) ON 3⅛" P.C. DIA. FITTED WITH 5/32 BORE RESTRICTION PLATE.

SHAFT DIA.	25·25 in
REVS. PER MIN.	194 MAX.
JOURNAL LOAD	10500 lb.
JOURNAL SURFACE (PROJECTED)	374 in²
JOURNAL PRESSURE	28 lb/in²
DIAMETRAL OIL CLEARANCE	·026 in.
HEAT GENERATED	62 B.T.U/MIN.
ALTERNATIVES: COOLING WATER PER HOUR	80 GALLONS.
ALTERNATIVES: CIRCULATING OIL PER HOUR	35 GALLONS.
OIL CAPACITY OF CASING (APPROX.)	9·5 GALLONS.



KEY PLAN - TRIPLE SCREW SHIP. CENTRE SHAFT.

ONE BEARING OPPOSITE HAND TO DRAWING.

LIST OF PARTS PER BEARING.

REF	PART NO.	PART NAME	No OFF	MATERIAL	REMARKS
1	D526/502TH	CASING BOTTOM	1	CAST STEEL	WHITEMETAL LINED & FACED.
2	D726/252	CASING TOP	1	CAST STEEL	WHITEMETAL LINED & FACED.
3	F807/5b	INSPECTION DOOR	1	PERSPEX	
4	255H/2525	JOURNAL PAD	5	GUNMETAL	WHITE METAL LINED.
5	F74/67	JOURNAL PAD STOP	2	" "	
6	F350/3003	OIL THROWER RING	1	ALUM. ALLOY	
7	F57/34	OIL SCRAPER	1	GUNMETAL	
8	FA20/344	OIL DEFLECTOR	2	ALUM. ALLOY	STD. No 3/5⅝
9	F8206/327	OIL LEVEL GAUGE	1	PERSPEX	STD. 4" (UNo 9)
10	F235/295	OIL—DRAIN PLUG	1	MILD STEEL	STD. ¾" N.P.T.
11		WING NUTS	2	MANG. BRONZE	STD. ½" UNC
12		STUDS	2	MILD STEEL	STD. ½" UNC x 2" LONG
13		JOINT BOLTS & NUTS	4	" "	STD. 1½" UNC x 10⅜ LONG
14		JOINT BOLT & NUTS	2	" "	STD. 1½" UNC x 12⅛ LONG.
15		ROUND HEAD SCREWS	4	" "	STD. ⅝" UNC x ¾" LONG.
16		TAPBOLTS	4	" "	STD. ⅞" UNC x 7" LONG.
17	F87/197	TUBEPLATE	2	R.N. BRASS	
18		TUBES	3	CUPRO-NICKEL	EACH 1¾" DIA. x 18 SWG x 3'-7½" LONG.
19		METALLIC PACKING RING	12		CRANE No 601C M.- 895 ⅝ DIA x ¾ ⅛ x ½ THK
20		FIBRE PACKING RING	6		CRANE No 802 " - 895 ⅝ DIA x ¾ ⅛ x ½ THK
21		FERRULES	6	CUPRO-NICKEL	CRANE PACKING LTD. DRG. No 71938
22		STUDS & NUTS	8	MILD STEEL	STD. ½" UNC x 3" LONG.
23		C'SK. SCREWS	4	" "	STD. ½" UNC x 1⅞" LONG.
24	F218/18	TUBE GUARD	1	" "	SECURED BY ⅝ - 11 UNC TAPBOLT x 7⅞ LONG & ⅝ STD DIA. SPRING WASHER
25		WASHER	2	" "	STD. ½ DIA.
26		DOWEL	2	MILD STEEL	STD. ⅝ DIA x 7½ LONG — DRIVING PIT IN CASING BOTTOM, SLIDING FIT IN CASING TOP.
27	F275/372	JOINT	2	WINGERLE JOINTING	
28	F290/37	SPRING	1	SPRING STEEL	STRAIN 100 lb - 55 MONI DIA x 10 LVES x 1·15 RATE
29	F252/258	RESTRICTION PLATE	1	MILD STEEL	
30		OIL INLET STUDS & NUTS	4	" "	STD. ½" UNC x 1½ LONG.
31		OIL OUTLET " "	4	" "	STD. ½" UNC x 1⅞ "

Centre Shaft trailing Block

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6 SEP 1983

DATE	ORDER No	FOR MESSRS	ENG No	No OF SHIPS	SPARES PER SHIP	REGTS	REMARKS
29 June 65	CC643	CANADIAN VICKERS LTD.	HULL 205	—	—	CANADIAN REGT	THIS DRG ONLY COVERS THE MANUFACTURE OF BEARINGS
24 June 65	67765	" "	"	2	—		
1-12-65	65/447	" "	"	2	2 SETS		
19-12-69	69/440	" "	"	2	2 SETS RETURNED FOR		

5-9-83 CANADIAN VICKERS LTD. 2 SETS FOR SHIP. CC643. LOCH ST. LAURENT

MICHELL AFTERMOST BEARING (TRAILING)

SELF LUBRICATING TYPE MAT. WATER COOLED BY TUBES

SCALE: ¼ SIZE & AS MARKED

MICHELL BEARINGS LTD NEWCASTLE-UPON-TYNE