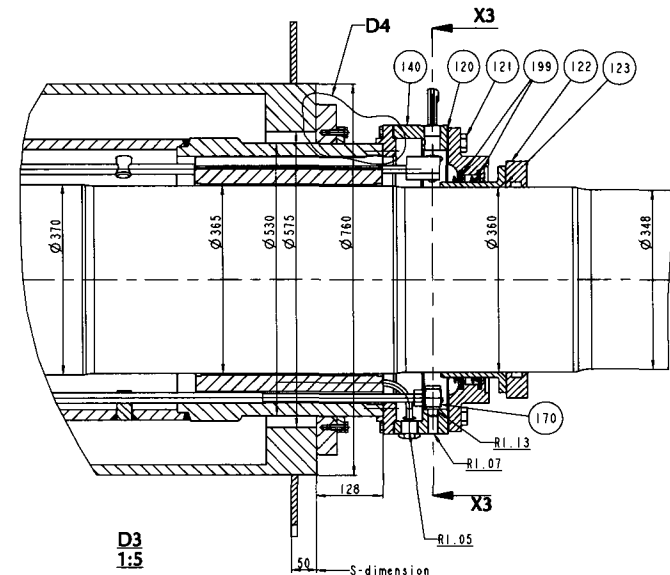
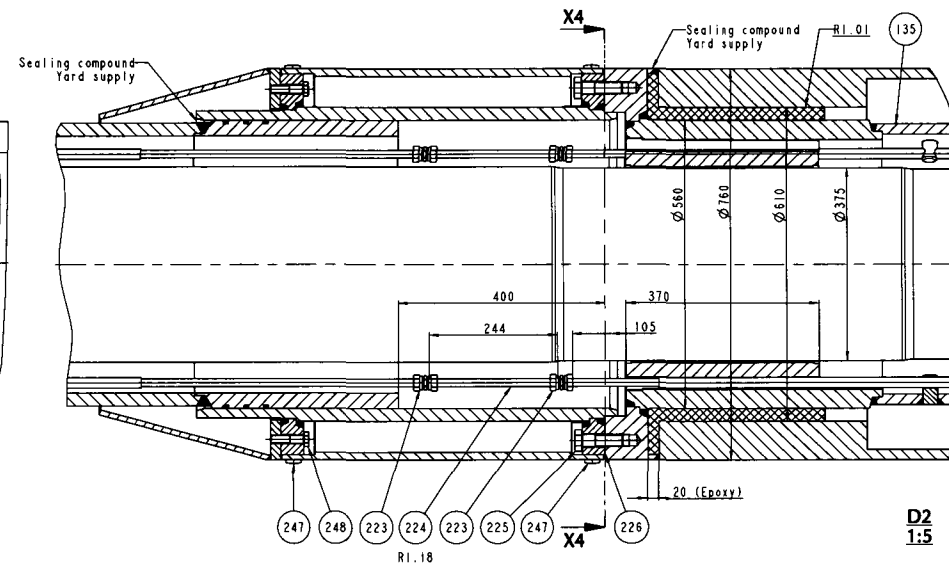
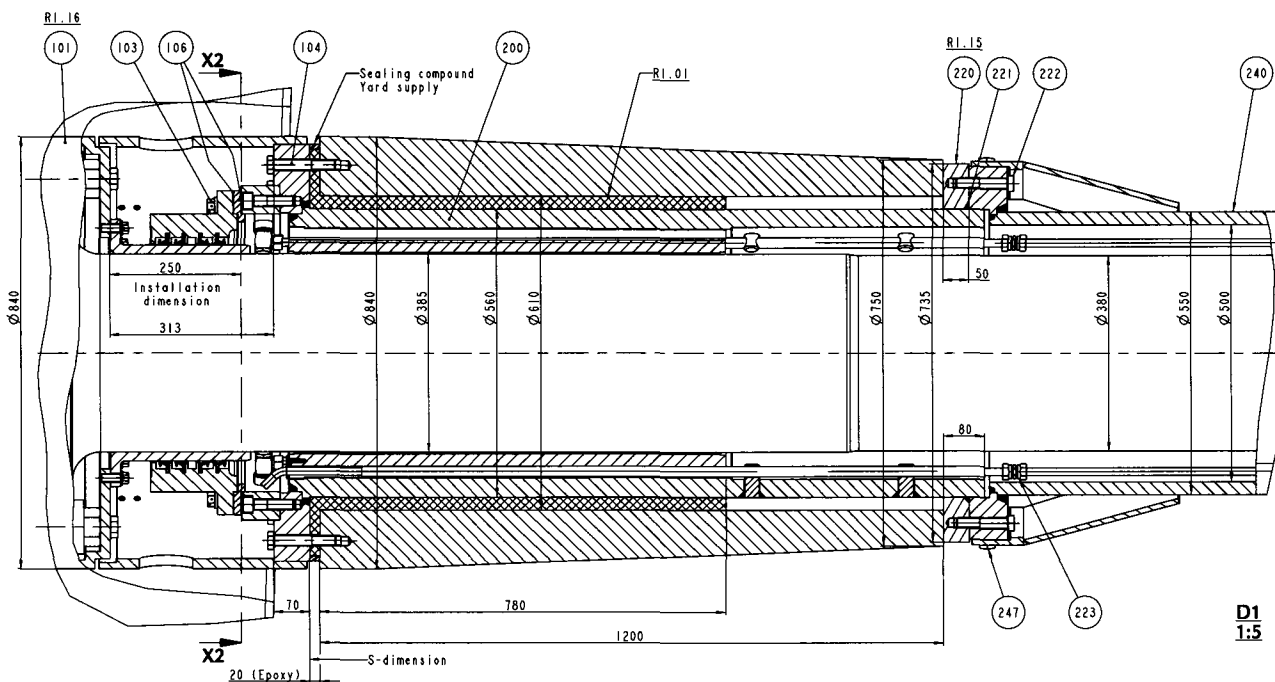
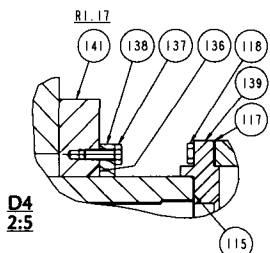
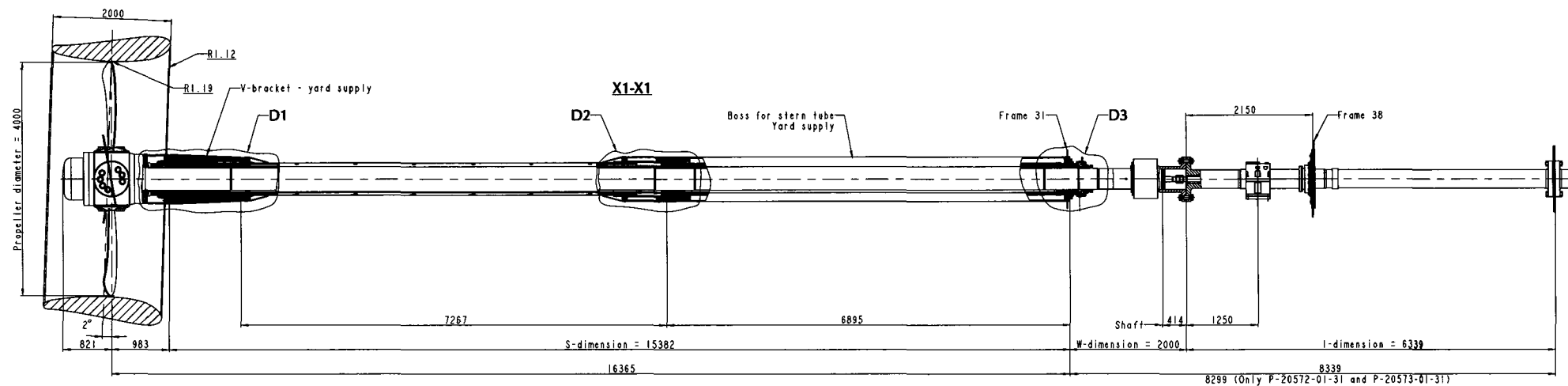




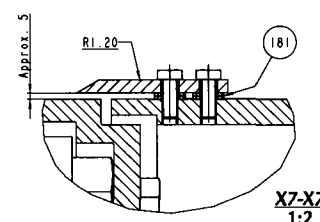
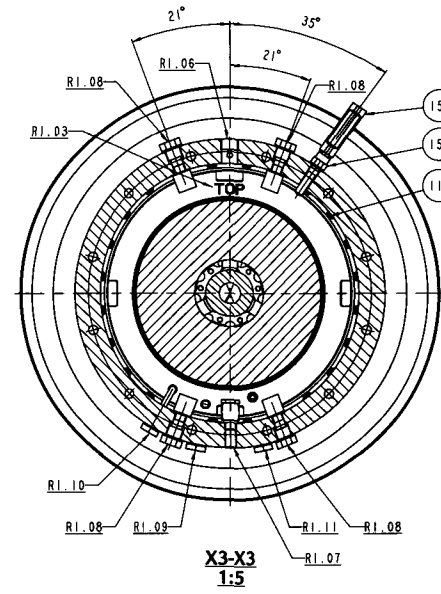
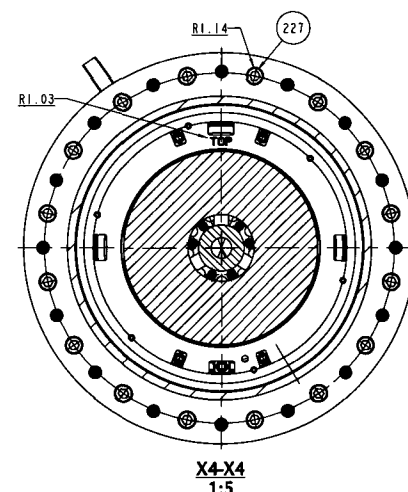
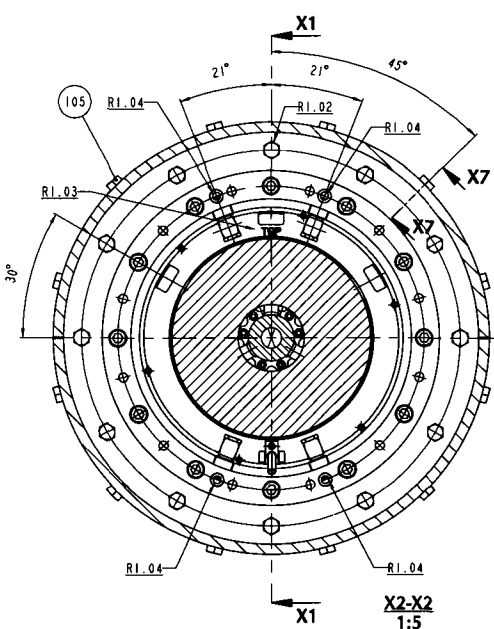
PLATE NO 3 3505-20572		PROD IDENT VBS1080ODG	INTERMEDIATE SHAFT	
ITEM NO	PART DESCRIPTION			WEIGHT KILOS
300	INTERMEDIATE SHAFT, COMPLETE			
300A	INTERMEDIATE SHAFT, COMPLETE			
301	INTERMEDIATE SHAFT			
302	SERVO OIL PIPE, COMPLETE			
302A	SERVO OIL PIPE, COMPLETE			
303	FLANGE			
304	FLANGE			
305	BULKHEAD SEAL			
306	HEXAGON SCREW			
310	JOURNAL BEARING			
311	EARTHING DEVICE, ALARM OUT			
362	FITTED BOLT			
362A	FITTED BOLT			
363	NUTS			
365	HEXAGON SOCKET CAP SCREW WITH NYLON LOCK			
366	SEALING RINGS			
370	BRAKE DISC			
370A	BRAKE DISC			
371	FITTED BOLT			
372	HEXAGON NUT			



Tightening torque, molykote lubricated

Item 103:	See manual for seal
Item 104:	130 Nm
Item 105:	130 Nm
Item 118:	25 Nm
Item 119:	25 Nm
Item 121:	130 Nm
Item 222:	130 Nm
Item 225:	230 Nm
Item 247:	130 Nm
Item 248:	130 Nm

See also drawing No 2036393-1



When ordering spare parts refer to:
Plate No 3 1005-20572 + item No

For item nos >= 300 refer to:
Plate No 3 3505-20572 + item No

Direction of propeller rotation viewed from aft looking forward:
Starboard side: Clockwise rotation
Port side: Counter clockwise rotation

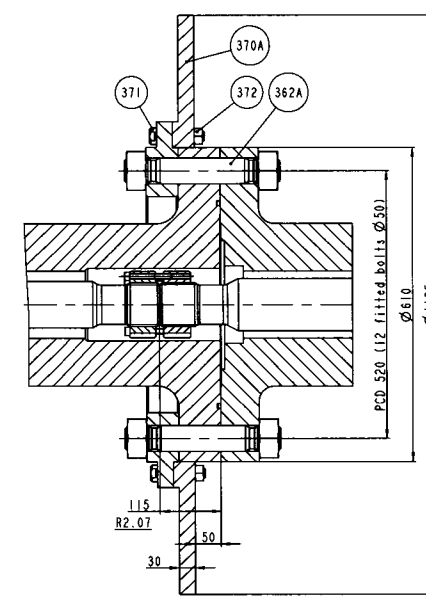
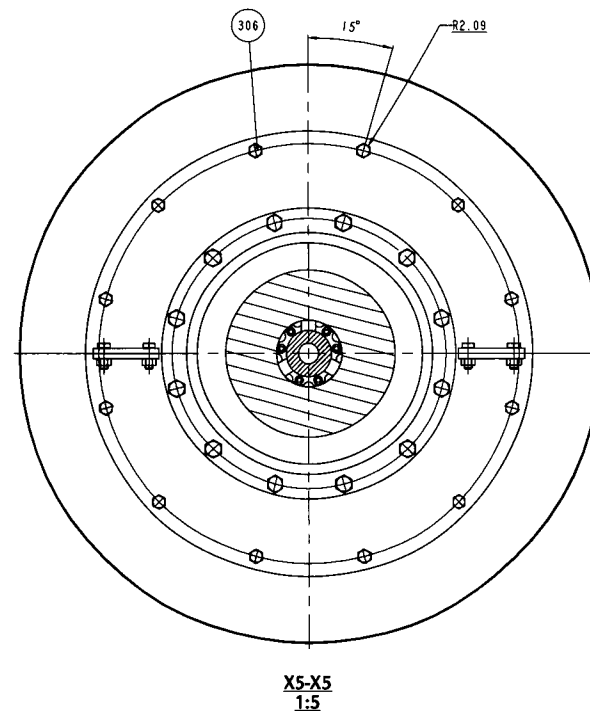
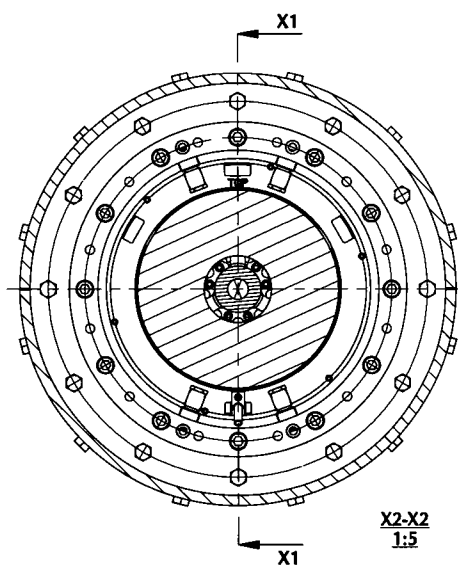
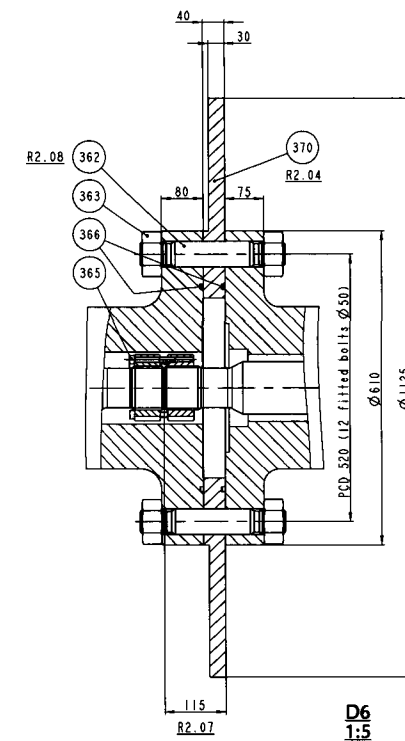
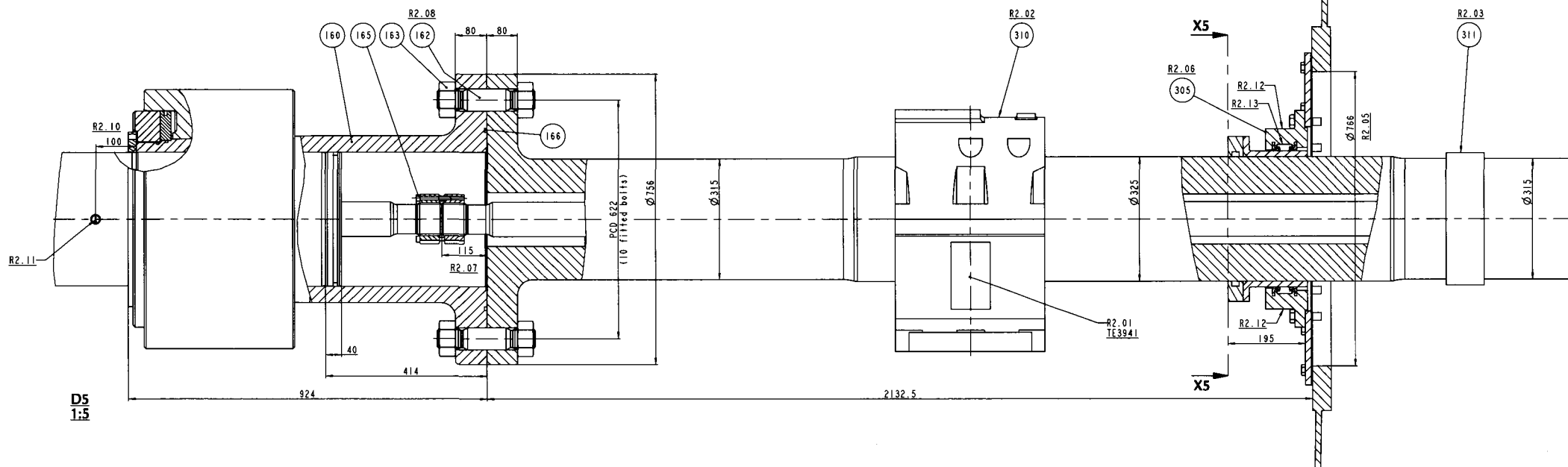
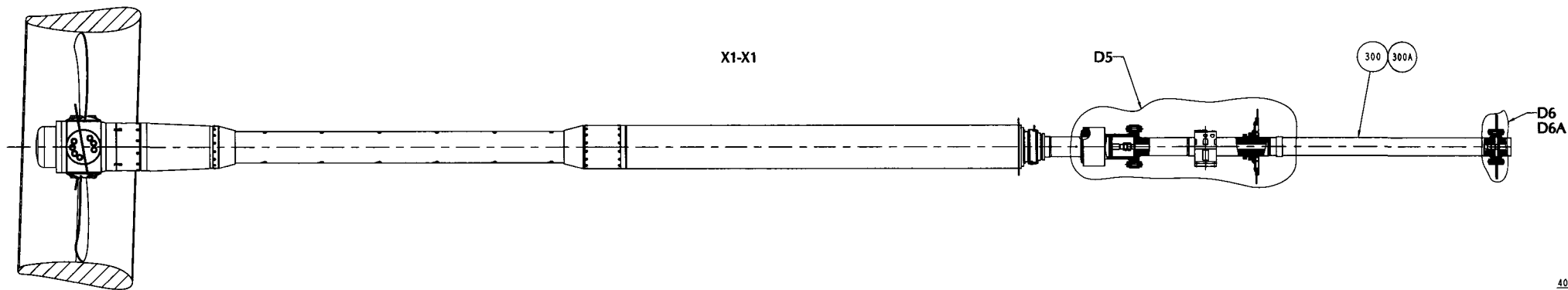
Hull number	P-number for port side propeller	P-number for starboard propeller
119	20572-01-31	20572-01-32
120	20573-01-31	20573-01-32
121	20574-01-31	20574-01-32
122	20575-01-31	20575-01-32
123	20576-01-31	20576-01-32
124	20577-01-31	20577-01-32
125	20578-01-31	20578-01-32
126	20579-01-31	20579-01-32
127	20662-01-31	20662-01-32
128	20663-01-31	20663-01-32

Yard	Aker Yards, Norway
Type of vessel	AHTS
Engine type / Output MCR	2 x 7+8L27/38 / 2380 + 2720 kW
Engine / Propeller rpm	800 / 145
Classification	Det Norske Veritas, No ice class, TMON

Date	Des	CHK	A.C.	Revision change	Chg. Ref.	Rev.
2008.06.17	TMK	TMK	*	Page 2: View D6A added.		01
2007.11.15	TMK	TMK	*	Remark R2.13 added. Remarks R3.07 and R3.09 changed.		06
2007.09.19	TMK	TMK	*	Page 3: Item No. 262 added.		05
2007.08.06	TMK	TMK	*	Item No. 362: dia. ø48 -> ø50.		04
Basic Standards (ISO 9001):						
EN215-m Tolerances EN21C Surf. roughness						
Material / Blank:						
Final User Material:						
Mass (kg):						
Scale:	1:35	Size:	AO	Product Type:	VBS1080/ODG350	Page No.: 1 of (3)
Item No.:	3P1001	Item Name:	Propeller equipment	Item Id.:	2113514-5	Final User Ident. No.:
Final User Info. No.:						
Final User Description:						

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R2.13	Temperature sensor TE3973 for bulkhead seal. Supplied together with the bulkhead seal.
R2.12	Connections in top and bottom to be connected to 5 l oil tank supplied with the bulkhead seal. Please refer to documentation for the bulkhead seal.
R2.11	Reference mark on propeller shaft.
R2.10	Installation dimension for the coupling flange, item 160. Refer to Work Card 10 304-01 for installation instructions.
R2.09	12 x M16x30, PCD 815 Threaded holes to be made in the bulkhead for the screws.
R2.08	The fitted bolts are supplied finish machined to match the holes in the flanges. When assembling the flanges ensure that the "0" marking on the flanges coincide.
R2.07	Control measure for propeller blades in neutral position.
R2.06	Bulkhead seal, water and gas tight. Refer to separate manual for installation instructions. Make: IMC Lagensmit BV Type: Supreme 2/2 BHG2-355
R2.05	Bulkhead opening.
R2.04	Brake disc.
R2.03	Shaft earthing device, complete. Refer to separate manual for installation instructions.
R2.02	Journal bearing for intermediate shaft. Refer to separate manual for installation instructions.
R2.01	Connection for temperature sensor TE3941. The sensor is supplied with the bearing.
Remark	Description


Tightening torque, molykote lubricated

Item 163:	2940 Nm or 300 Nm + 24 mm
Item 165:	35 Nm
Item 306:	65 Nm
Item 363:	2260 Nm or 300 Nm + 22 mm
Item 365:	35 Nm
Item 372:	230 Nm

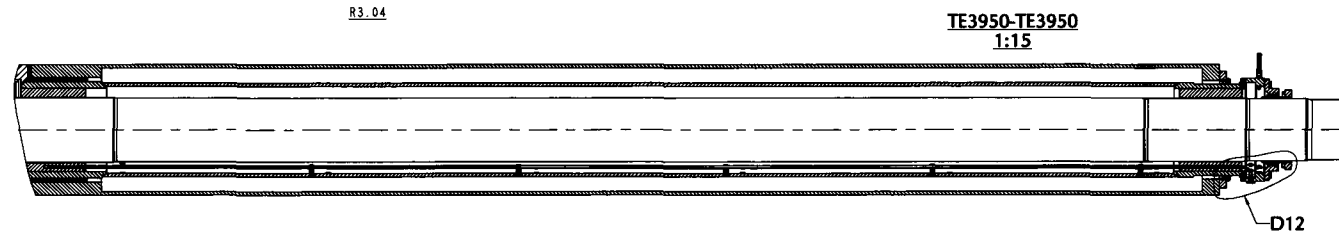
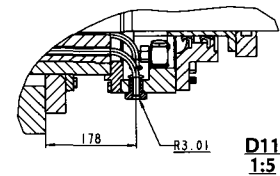
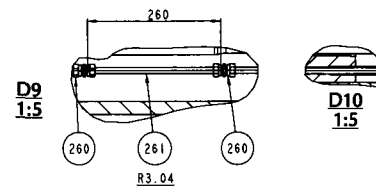
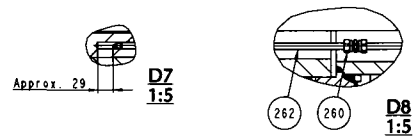
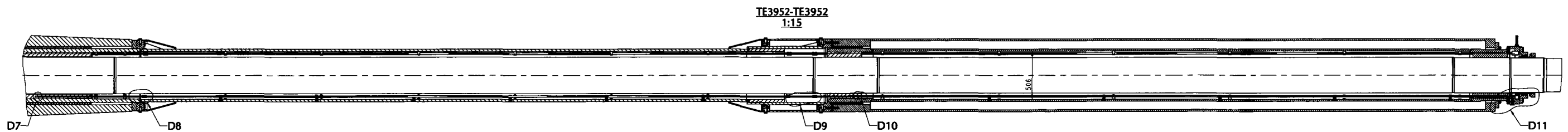
See also drawing No 2036393-1

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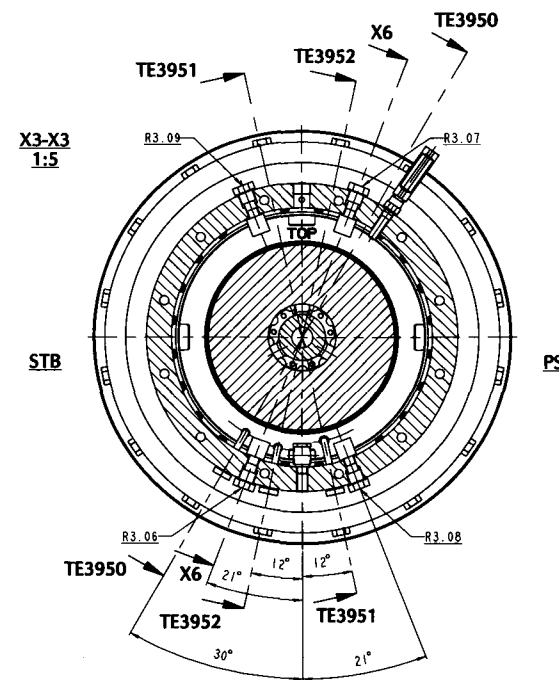
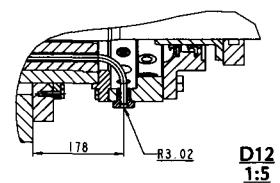
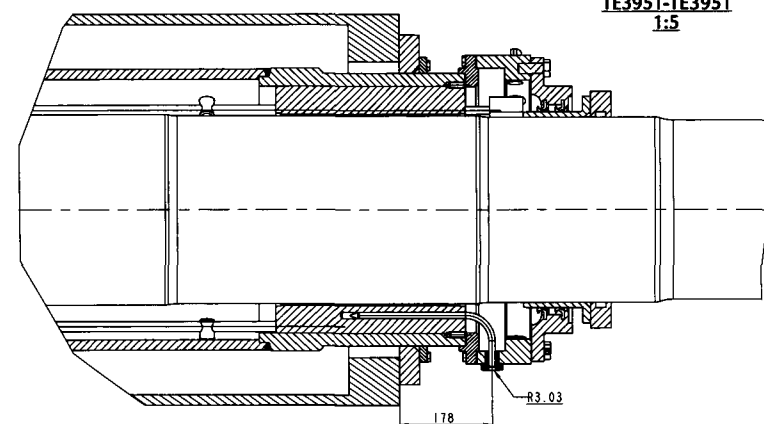


Date	Des.	Chk.	A.C.	Revision change	Chg. No.	Rev.
2008.06.17	TMK	TMK	*	Page 2: View D6A added.		07
Scale: 1:35	Size: AO	Product Type: VBS1080/ODG350	Page No.: 2 of (3)	Projection: 	MAN Diesel	
Item No.: 3P1001	Item Name: Propeller equipment	Item Id.: 2113514-5				
Final User Info. No.:	Final User Description:	Final User Ident. No.:				

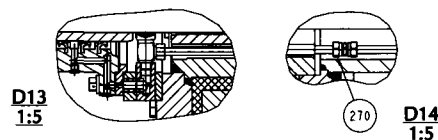
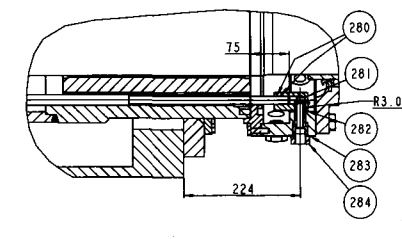
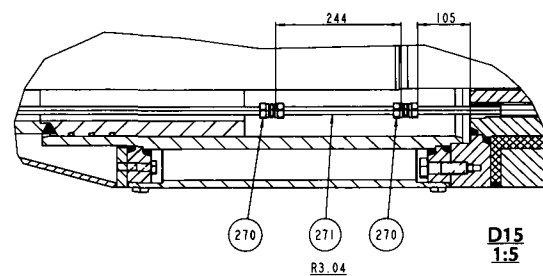
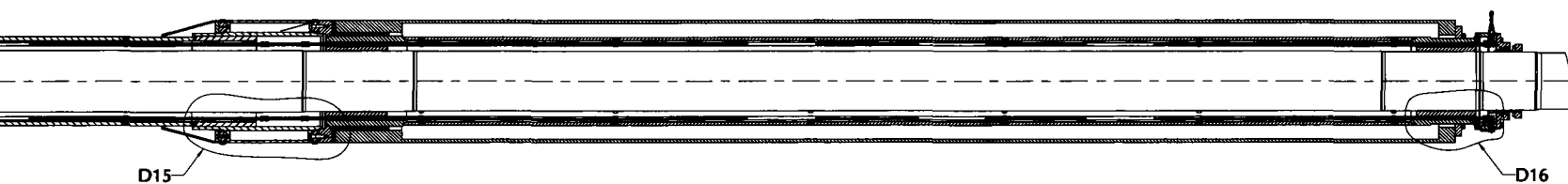
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TE3951-TE3951
1:5



X6-X6
1:15

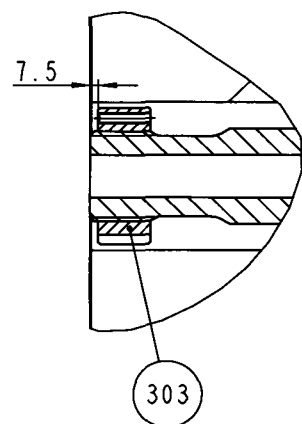
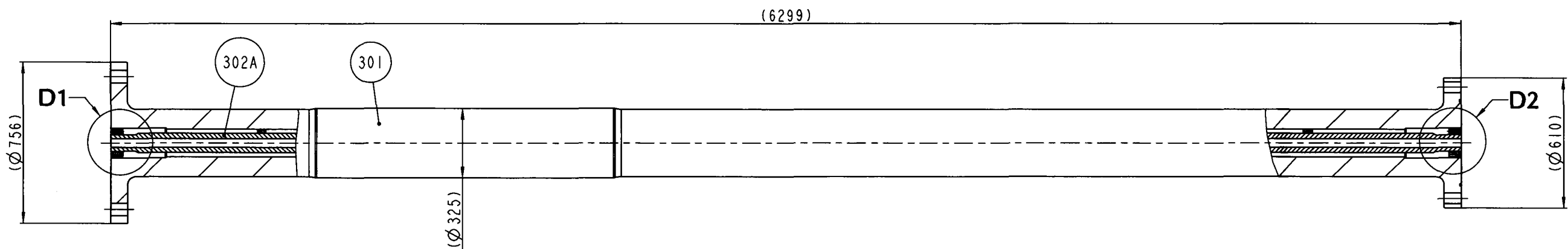


R3.09	Pipe connection, G1/2, for aft seal chamber #3835, outlet. Pipe connection according to view X6-X6.
R3.08	Pipe connection, G1/2, for aft seal chamber #3835, inlet. Pipe connection according to view X6-X6.
R3.07	Pipe connection, G1/2, for aft seal chamber #283, outlet.
R3.06	Pipe connection, G1/2, for aft seal chamber #283, inlet.
R3.05	Thread to be sealed with Loctite 572, or similar.
R3.04	The length of the pipe is to be adapted by the shipyard during installation.
R3.03	Connection for temperature sensor TE3951 for the fwd bearing. See drawing number 2065137-6. Refer to plate 3 8418 for ordering of spare parts. Temperature sensor with two sensor elements - one spare.
R3.02	Connection for temperature sensor TE3950 for the intermediate bearing. See drawing number 2122486-7. Refer to plate 3 8418 for ordering of spare parts. Temperature sensor with two sensor elements - one spare.
R3.01	Connection for temperature sensor TE3952 for the aft bearing. See drawing number 2065138-8. Refer to plate 3 8418 for ordering of spare parts. Temperature sensor with two sensor elements - one spare.
Remark	Description

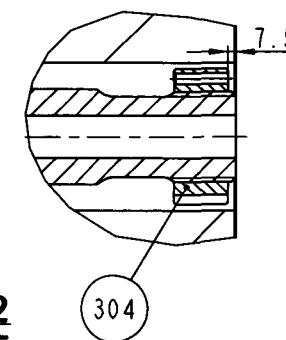
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Date	Des.	Chk.	A.C.	Revision change	Chg. No.	Rev.
2008.06.17	TMK	TMK	#	Page 2: View D6A added		07
Scale:	Size:	Product Type:	Page No.:	Projection:	MAN Diesel	
1:35	AO	VBS1080/ODG350	3 of (3)			
Item No.:	Item Name:	Item Id.:	First User Info. No.:	First User Description:	First User Ident. No.:	
3P1001	Propeller equipment	2113514-5				



D1
1:5



D2
1:5

When ordering spare parts refer to:
Plate No. 3 3505-20572 + item No.

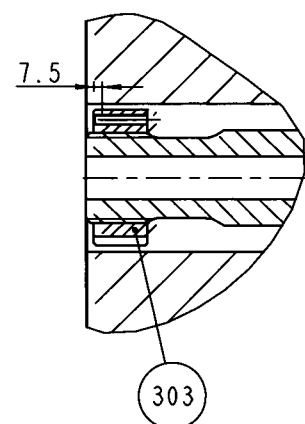
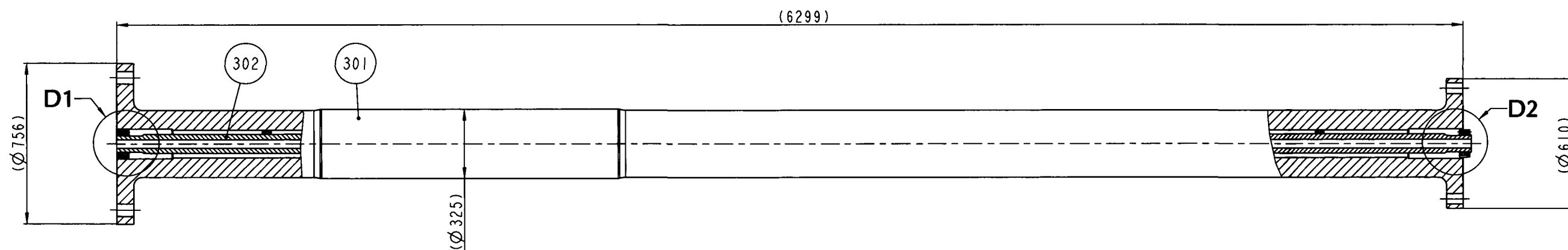
**"Intermediate shaft, complete" made
for P-20572-01-31 and P-20573-01-31.**

Date	Des.	Chk.	A.C.	Revision change	Chg. Not.	Rev.
			*			03
			*			02
			*			01
2008.06.17	TMK	TMK	*			00
Basic Standards (MDD SB):				Suppl. Drawing No.:		
EN21F-m Tolerances EN21C Surf. roughness						
Material / Blank:				Final User Material:		Mass (kg):
						3845
Scale:	Size:	Product Type:			Page No.:	Projection:
1:15	A2				1 of (1)	MAN Diesel
Info. No.:		Item Name:				Item Id.:
3V0713		Intermediate shaft, complete				2135677-0
Final User Info. No.:		Final User Description:				Final User Ident. No.:

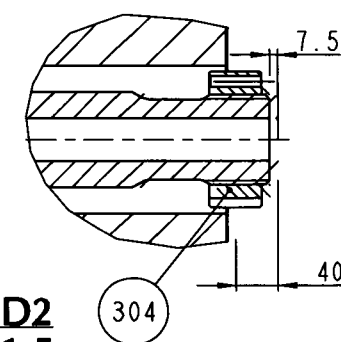
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CAD Drawing - do not correct by hand - Proj/E drawing



D1
1:5



D2
1:5

When ordering spare parts refer to:
Plate No. 3 3505-20572 + item No.

Basic Standards (MBD SB) & Suppl. Drawing No.:					EN21C Surf. roughness	Projection:	Material / Blank:	
					EN21F-m Tolerances	Mass (kg):	Final User Material:	
						3848		
Date	Des.	Chk.	Appd.	A.C.	Change / Replacement			C.No
				*	Replaced by Ident. No.:			9
				*				8
				*				7
				*				6
				*				5
				*				4
				*				3
				*				2
2007.08.02	TMK	TMK		*	Item No. 301 revised.			1
2007.01.18	TMK	TMK		*				0
Similar Drawing No.:					Replacement for Ident. No.:			
Scale:	Size:	Type:				Page No.:	MAN B&W Diesel A/S	
1:15	A2					1 of (1)		
Info. No.:		Description:					Ident. No.:	
3V0713		Intermediate shaft, complete					2115503-6	
Final User Info. No.:		Final User Description:					Final User Ident. No.:	

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CAD Drawing - do not correct by hand - Profile Drawing