1		2			3		4		5		6		
<u>Available e</u>	<u>xecutions</u>												
			Attribu			ute 2:							
Execution		Cylinder	Turboc	harger :ation	Booster	pumps for lubrication.							
No.	ID	No.		EXTERNAL	WITH	WITHOUT							
001	PAAD250906	5		X	X								
002	PAAD250907	5	X		×								
003	PAAD250908	5		X		X							
004	PAAD250910	5	X			X							
005	PA A DOS 10 68	6		X	X								
006	PAAD251069 PAAD251070	6	×	X	X	X							
007	PAAD251070	6	×	^		X							
009	PAAD341004	7		X	×								
010	PAAD341005	7	X		X								
011	PAAD341006	7		×		X							
012	PAAD341007	7	X			X							
			<u>NOTE</u> The al	bove executions	can be confiau	red using the Engin	e Configurator.						
			Detaile not sh	ed guidance for nown in the abo	the executions ve table, then	is provided within it may still be und	the Marine Installater development or	tion Manual (MIM). If not available. For fu	a specific exec irther informatio	cution of intere on or in case	st is of a		
			, ,			be contacted direct	,	ion with regard to	the subject_mat	ter covered as	: it was		
			availat area,	ole at the time and the design	of printing. Ho of the subject	wever, the publicati -products is subjec	on deals with comp t to regular improv	licated technical ma ements, modifications	tters suited onl s and changes.	y for specialis Consequently, t	ts in the the publisher		
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			publica other	rion. The publist loss, or any otl	ner and copyrig ner damage or	ınr owner shall und injury, suffered by	ier no circumstances any party making	s be held liable for use of this publica	any financial c tion or the info	onsequential do ormation contair	images or ned herein.		
			Prod.	X40-E	3								
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			Char	- sna102			new Design						
				Rev. Creator A	approver Approv	al Date Change ID	Change Synopsis				Activity Code	Е	С
						, IIIRR	OLC ATING	OIL SYS	STEM				
				WIN Winterthur G			iaster drawii		, ı <u> </u>				
				vvinterthur G	as & Diesel		INSTEL ULUWII	19					
			Se	eparate BC			,						
			Scale	e — — — — — — — — — — — — — — — — — — —		Units [Material	<u> </u>		Net Weight	0.0	01
CLIDEVCE DI	ROTECTION SEE	בשטוום עאוי	By takin and hon	ht Winterthur Gas & Die g possession of the dra ours these rights. Neith Irawing may be used in	wing the recipient rec er the whole nor any	ognizes Design	Desigr Group		Q-Code	XXXXX	Standard	WD	DS
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NO	QTY	Y Iten	חות עות	Item Name			Director	Standard-ID	Basic Material			Net
1	1		AD181046	LUBRICATING	G OIL SYSTEM		Dimension					Veight 0.001
<u> </u>	ı	PA	NAD 10 1040	LUDDICATING	OIL CVCTEM							J.00 I
3	1	PA	AD245338	LUBRICATING	G OIL SYSTEM						C).001
4	1	PA	AD212314	LUBRICATING	OIL DRAIN TANK						C	0.001
5	1	107	7.341.455.500	INSTRUCTION	N FOR FLUSHING						C).001
6	1	PA	AD181146	LUBRICATING	G OIL DRAIN TANK	, ,					C).001
5			5 X40-B									
Prod.			5 X40-B									
			5 X40-B									
			5 X40-B									
Change History Prod.		dki02		09.02.2017	EAAD087222	Legacy informa	ation. See corresp	oonding ChangeNotice			4	
	- Rev.	dki02	21 mhu019		EAAD087222 Change ID	Legacy informa Change Synopsis	ation. See corresp	oonding ChangeNotice) 	Activity Code	4 E	
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Change History	Wind Windshing	Creator Creator Intert Binterthui possessi	21 mhu019 or Approver IN Continue Gas & Materia Gas & Diesel Ltt. ion of the docu	09.02.2017 Approval Date Diesel A. All rights reserved. ment the recipient	Change ID LUBRI Dimension Units	Change Synopsis ICATIN [m] [kg] Basic Ma	IG OIL	SYSTEM	1	Net Weight	E 0.	C C
Change History	Wind Wind Wind Wind Wind Wind Wind Wind	Creator Intert Binterthur possessiand honor this doc, fabricati	21 mhu019 or Approver Lill Of Materia or Gas & Diesel Ltd ion of the docuburs these rights. No cument may be u ion, marketing or a	09.02.2017 Approval Date Diesel Al All rights reserved.	Change ID LUBRI Dimension Units Main Design	Change Synopsis	IG OIL		1 XXXXX	Net Weight Standard	E 0.	00 /D:

	QTY	Y Item I	D	Item Name			D	Dimension	Standard-ID	В	Basic Material		V	Net Weight
1	1	PAAI	D181046	LUBRICATING	G OIL SYSTEM								(0.001
4	1	PAAI	D212314	LUBRICATING	G OIL DRAIN TANK	((0.001
5	1	107.3	341.455.500	INSTRUCTION	N FOR FLUSHING									0.001
6	1		D181146	LUBRICATING	G OIL DRAIN TANK	(0.001
0	'	I AAI	J1011 1 0											0.001
Prod.			5 X40-E	3										
Prod.			5 X40-E	3										
			5 X40-E	3										
Change History Prod.		dki021			EAAD087222	Legacy info	rmation. See	COTTESDO	onding Chang	eNotice			4	
	- Rev.	dki021 Creator		09.02.2017 Approval Date	EAAD087222 Change ID	Legacy info		correspo	onding Chang	eNotice		Activity Code	4 E	- C
		Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synops	sis					Activity Code		
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	V	Creator VL interth	mhu019 Approver	09.02.2017 Approval Date Diesel	Change ID	Change Synops	sis					Activity Code		
Change History	Wind Windshing	Creator Creator Bill interthur of possession	mhu019 Approver Of Materia as & Diesel Ltt. of the docu	09.02.2017 Approval Date Diesel al d. All rights reserved.	Change ID LUBR Dimension Units	Change Synops ICAT [m] [kg] Bas	ING C		SYST	EM		Net Weight	E 0.	.001
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NO	QTY	Y Item	טו וו				Dimension	Standard-ID	Basic Material		\/	Net Veight
2	1	PA	AD218151	LUBRICATING	G OIL SYSTEM		D.HIOHOIOII).001
	4			LUBRICATING	G OIL SYSTEM							
3	1	PA	AD245338	LUDDICATING	COIL DOAIN TANK	,					(0.001
4	1	PA	AD212314	LUBRICATING	G OIL DRAIN TANK	·					C	0.001
5	1	107	7.341.455.500	INSTRUCTION	N FOR FLUSHING						C	0.001
6	1	PA	AD181146	LUBRICATING	GOIL DRAIN TANK	,					С	0.001
			5 YAO.B									
Prod.			5 X40-B									
			5 X40-B									
			5 X40-B									
		dki02		09.02.2017	EAAD087222	Legacy informa	ation. See corresp	onding ChangeNotice	3		4	
	- Rev.	dki02 Creator	21 mhu019		EAAD087222 Change ID	Legacy informa Change Synopsis	ntion. See corresp	onding ChangeNotice)	Activity Code	4 E	
	V	Creator Creator	21 mhu019	09.02.2017 Approval Date Diesel	Change ID	Change Synopsis		oonding ChangeNotice		Activity Code	-	- C
Change History	Wind Windshing	Creator Creator Creator Bi Intert Bi Interthur possession	21 mhu019 r Approver thur Gas & ill Of Materia r Gas & Diesel Ltt ion of the docu	09.02.2017 Approval Date Diesel Al All rights reserved.	Change ID LUBRI Dimension Units	Change Synopsis	IG OIL			Activity Code Net Weight	E	C
By ta ecogr inv p	Wind Wind Wind Wind Wind Wind Wind Wind	Creator Creator Creator Creator Creator Creator Creator Creator	21 mhu019 r Approver thur Gas & ill Of Materia r Gas & Diesel Ltc. but the document may be under the document of the document may be under the document of t	09.02.2017 Approval Date Diesel Al All rights reserved.	Change ID LUBRI Dimension Units Main Design	Change Synopsis	IG OIL		1 xxxxx	Net Weight Standard	E 0.	

		Y Item ID)	Item Name			Di	imension	Standard-ID	В	asic Material		V	Net Veight
2	1	PAAD	218151	LUBRICATING	GOIL SYSTEM								(0.001
4	1	PAAD	212314	LUBRICATING	G OIL DRAIN TANK	((0.001
5	1	107.3	41.455.500	INSTRUCTION	N FOR FLUSHING								(0.001
6	1		181146	LUBRICATING	G OIL DRAIN TANK	(0.001
		I AAD	101140											0.001
Prod.			5 X40-B											
Prod.			5 X40-B											
			5 X40-B											
Change History Prod.	-	dki021		09.02.2017	EAAD087222	Legacy info	rmation. See	corresp	onding Chang	geNotice			4	-
	- Rev.				EAAD087222 Change ID	Legacy info		corresp	onding Chang	geNotice		Activity Code	4 E	- C
		Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synops	S					Activity Code		
	V	Creator	mhu019 Approver	09.02.2017 Approval Date		Change Synops	S					Activity Code		
Change History	V	Creator	mhu019 Approver ur Gas &	09.02.2017 Approval Date Diesel al	Change ID	Change Synops	S					Activity Code		
Change History	Win	Creator Interthological Control Contr	mhu019 Approver Of Materias & Diesel Ltd of the docu	09.02.2017 Approval Date Diesel Al All rights reserved. ment the recipient	Change ID LUBR Dimension Units	Change Synops ICAT [m] [kg] Basi	NG C		SYST	EM		Net Weight	Е 0.	C 001
Change History	Win	Creator Creator Creator Creator Creator Creator Creator Creator Creator	mhu019 Approver Of Materias & Diesel Ltt. of the document may be used to the may be used.	09.02.2017 Approval Date Diesel Al All rights reserved. ment the recipient	Change ID LUBR Dimension Units Main Design	Change Synops	NG C			EM	XXXXX	Net Weight	0. V\	C

	QTY	/ Item II)	Item Name			Dimensio	n Standard-ID	Basic Material		V	Net Veight
1	1	PAA	0181046	LUBRICATING	GOIL SYSTEM							0.001
3	1	PAA	0245338	LUBRICATING	G OIL SYSTEM						(0.001
4	1	PAAI	0060891	LUBRICATING	OIL DRAIN TANK	((0.001
5	1	107.3	341.455.500	INSTRUCTION	N FOR FLUSHING						(0.001
6	1	PAAI	D181146	LUBRICATING	OIL DRAIN TANK	ζ.					(0.001
Prod.			6 X40-B									
			6 X40-B									
			6 X40-B									
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	V	Creator	mhu019 Approver ur Gas &	09.02.2017 Approval Date Diesel	Change ID	Change Synopsis		sponding ChangeNotice		Activity Code		
Change History	Win	Creator Creator Creator Creator Bill Control of the control o	mhu019 Approver Ur Gas & Of Materias & Diesel Ltd	09.02.2017 Approval Date Diesel A. All rights reserved.	Change ID LUBR Dimension	Change Synopsis	NG OIL				E	C
Change History	Wind Wind Indicated American Windows	Creator Creator Creator Creator Creator Creator Creator Creator	mhu019 Approver Ur Gas & Of Materia as & Diesel Ltd of the document of the document of the document of the document of the sthese rights. N	09.02.2017 Approval Date Diesel A. All rights reserved. ment the recipient	Change ID	Change Synopsis	NG OIL			Net Weight	E 0.	

1	QTY	Y Ite	em ID		Item Name					Dimer	nsion	Standard-ID	Bas	sic Material		,	Net Weight
I	1	P.	AAD18	1046	LUBRICAT	TING OIL S	SYSTEM										0.001
4	1	P.	AAD06	0891	LUBRICAT	TING OIL D	RAIN TANK	(0.001
5	1	1(07.341.	.455.500	INSTRUC	TION FOR	FLUSHING										0.001
6	1	P	AAD18	1146	LUBRICAT	TING OIL D	RAIN TANK	(0.001
.00				6 X40-B													
Prod.				6 X40-B													
				6 X40-B													
							D007000										
Change History Prod.	- Rev.	dki0 Creat	+		09.02.2017 Approval Date	-	D087222	Legacy Change S		tion. See cor	rrespo	onding ChangeN	lotice		Activity Code	4 E	- C
		Creat	tor	mhu019 Approver	09.02.2017 Approval Date	Chang	je ID	Change S	ynopsis						Activity Code	<u> </u>	
	V	Creat	tor	mhu019 Approver	09.02.2017 Approval Date	Chang	je ID	Change S	ynopsis			onding ChangeN			Activity Code	<u> </u>	
	V	Creat	Th rthur	mhu019 Approver Gas &	09.02.2017 Approval Date Diesel	Chang	JBR	Change S	ynopsis						Activity Code	<u> </u>	
Change History	Win	Creat	Thur Bill Of	mhu019 Approver Gas & f Materia & Diesel Ltd	09.02.2017 Approval Date Diesel All rights reser	Chang L U Dimen	JBR	Change S	ynopsis	IG OI					Activity Code Net Weight	E	
Change History	Wind Wind Wind Wind Wind Wind Wind Wind	Creat Inter interthiposses and hor this do	Thur Bill Of Session of the locument	mhu019 Approver Gas & Materia Diesel Ltc to the docu	09.02.2017 Approval Date Diesel al	Chang Dimen rved. pient e nor v for	JBR	Change Sylling Change	ynopsis TIN	IG OI			M	XXXXX	Net Weight	E 0	С

NO		Y Iter	m ID	Item Name			Dimension	Standard-ID	Basic Material		V	Net Neight
2	1	PA	AAD218151	LUBRICATING	G OIL SYSTEM							0.001
3	1	PA	AAD245338	LUBRICATING	G OIL SYSTEM							0.001
				LUBRICATING	G OIL DRAIN TANK	(
4	1		AAD060891	INSTRUCTION	N FOR FLUSHING							0.001
5	1	10	07.341.455.500			,					(0.001
6	1	PA	AAD181146	LUBRICATING	G OIL DRAIN TANK	\					(0.001
Prod.			6 X40-B									
			6 X40-B									
			6 X40-B									
Change History Prod.	-	dki02		09.02.2017	EAAD087222	Legacy inform	ation. See corres	ponding ChangeNotice	3		4	-
	- Rev.	dki02 Creato	21 mhu019		EAAD087222 Change ID	Legacy inform Change Synopsis	ation. See corres	ponding ChangeNotice		Activity Code	4 E	- C
		Creato	21 mhu019 or Approver	09.02.2017 Approval Date	Change ID	Change Synopsis				Activity Code		
	V	Creato	21 mhu019	09.02.2017 Approval Date	Change ID	Change Synopsis		oonding ChangeNotice		Activity Code		
	V	Creato	21 mhu019 or Approver	09.02.2017 Approval Date Diesel	Change ID	Change Synopsis				Activity Code		
Change History	Wi	Creato Creato Inter B interthu possess	21 mhu019 or Approver Thur Gas & Bill Of Material Gas & Diesel Ltc. sion of the docu	09.02.2017 Approval Date Diesel Al All rights reserved. ment the recipient	Change ID LUBR Dimension Units	Change Synopsis	NG OIL			Activity Code Net Weight	E	
Change History	Wind Windshing Inizes a part of	Creato Creato Inter B Interthu possess and hono this do	21 mhu019 or Approver Thur Gas & Diesel Ltc. ar Gas & Diesel Ltc. sion of the docu- ours these rights. No	09.02.2017 Approval Date Diesel Al All rights reserved.	Change ID LUBR Dimension Units Main Design	Change Synopsis	NG OIL		1 XXXXX	Net Weight	E 0.	С

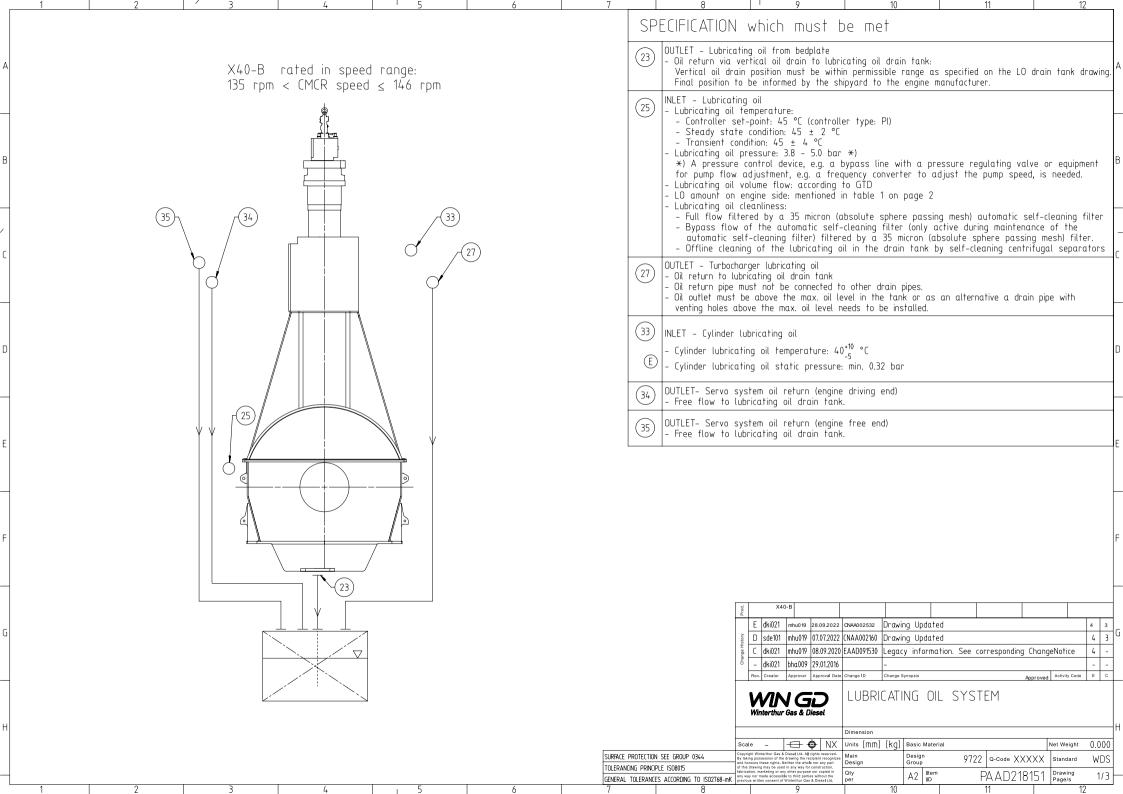
		Y Item	ID	Item Name			Dimension	Standard-ID	Basic Material		٧	Net Veight
2	1	PAA	D218151	LUBRICATING	OIL SYSTEM						(0.001
4	1	PAA	D060891	LUBRICATING	OIL DRAIN TANK	((0.001
5	1	107.	341.455.500	INSTRUCTION	N FOR FLUSHING						(0.001
6	1		D181146	LUBRICATING	G OIL DRAIN TANK	(0.001
		FAA	D101140									J.00 I
Prod.			6 X40-E									
Prod.			6 X40-E									
			6 X40-E									
Change History Prod.		dki021		09.02.2017	EAAD087222	Legacy inform	nation. See corres	ponding ChangeNotice	e		4	
	- Rev.				EAAD087222 Change ID	Legacy inform		ponding ChangeNotice	9	Activity Code	4 E	- C
	<u> </u>	Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synopsis				Activity Code		
	V	Creator	mhu019	09.02.2017 Approval Date	Change ID	Change Synopsis		ponding ChangeNotice		Activity Code		
	V	Creator Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synopsis				Activity Code		
Change History	Wi	Creator Creator Bill interthur of possession	mhu019 Approver Approver Of Materia Gas & Diesel Ltt of the docu	09.02.2017 Approval Date Diesel Al All rights reserved. ment the recipient	Change ID LUBR Dimension Units	Change Synopsis ICATII [m] [kg] Basic	NG OIL	SYSTEM	1	Net Weight	E 0.	C 001
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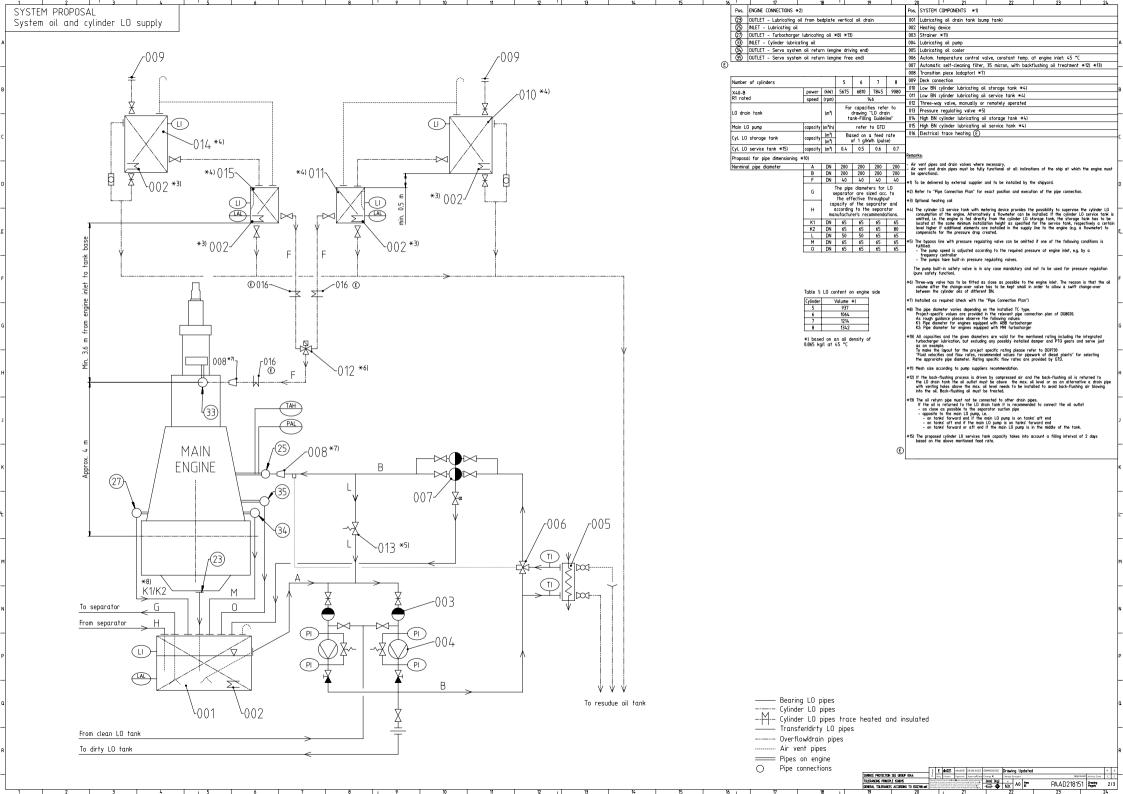
SEQ NO	QTY	Item ID		Item Name				Dimension	Standard-ID	Basic Material		V	Net Veight
2	1	PAAD2	18151	LUBRICATING	G OIL SYSTEM							C).001
3	1	PAAD2	45338	LUBRICATING	G OIL SYSTEM							C).001
4	1	PAAD3	340882	LUBRICATING	G OIL DRAIN TA	NK							152
5	1		1.455.500	INSTRUCTIO	N FOR FLUSHIN	IG							0.001
				LUBRICATING	G OIL DRAIN TA	NK							
6	1	PAAD1	81146).001
Prod.			7 X40-B										
istory													
Change History													
5		sde101	mhu019	11.02.2020	Oharan ID	-				1	A a Carlos O and a	-	-
	Rev.	Creator	Approver	Approval Date	Change ID	Change S	ynopsis				Activity Code	E	С
	V	VII.	VC		LUBF	RICA	TIN	G OIL	SYSTEM	1			
			r Gas &										
		Rill (Of Materia	al	Dimension								
Copyr	ight Win	terthur Gas					1						
D	leina -	000000:	S & Diesei Lto	I. All rights reserved.	Units	[m] [kg]	Basic Mater	ial			Net Weight		152
By ta	aking p nizes an	d honours t	of the docu hese rights. N	ment the recipient either the whole nor	Main Design	[m] [kg] Yes	Basic Mater Design Grou		9722 Q-Code	XXXXX	Net Weight Standard		152 /DS
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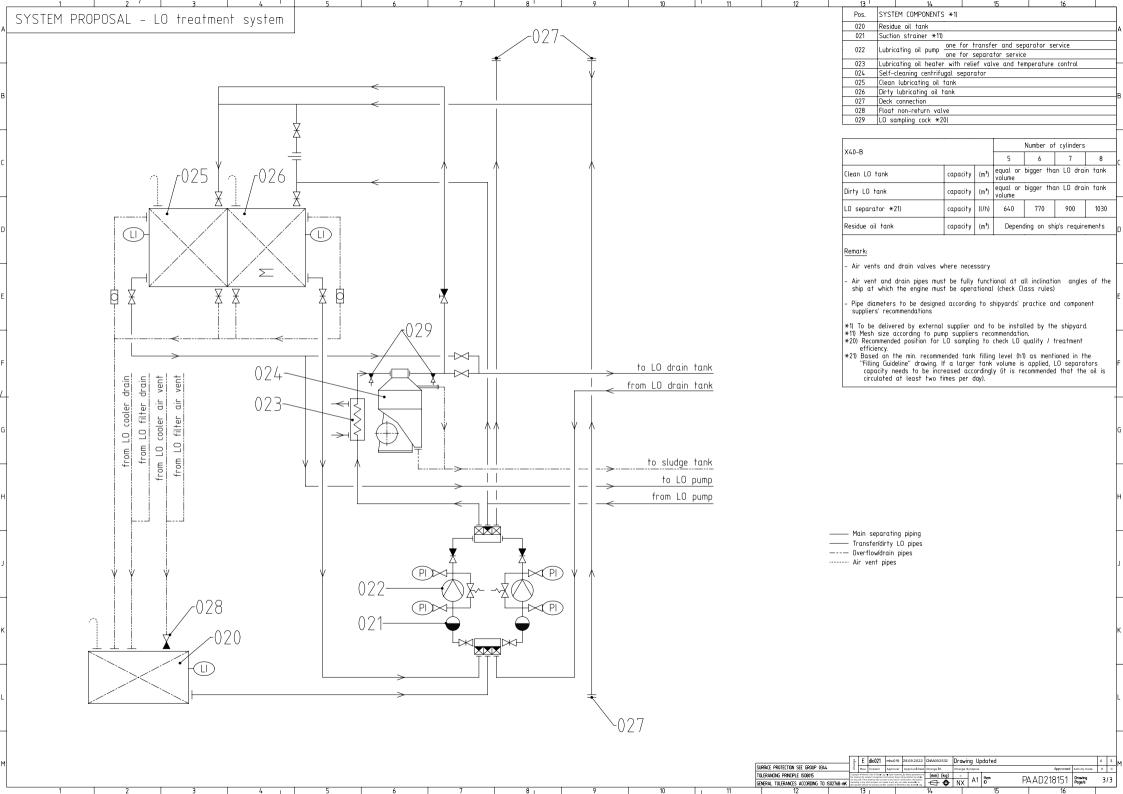
SEQ NO	QTY	Item ID		Item Name				Dimension	Standard-ID	Basic Material		V	Net Veight
2	1	PAAD2	218151	LUBRICATING	G OIL SYSTEM								0.001
4	1	PAAD3	340882	LUBRICATING	G OIL DRAIN TAN	<							152
5	1	107.34	1.455.500	INSTRUCTION	N FOR FLUSHING							C	0.001
6	1	PAAD1		LUBRICATING	G OIL DRAIN TANK	ζ							0.001
		ו אאט	101140										7.001
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History													
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		sde101 Creator	mhu019 Approver	11.02.2020 Approval Date	Change ID	- Change S	ynopsis				Activity Code	- Е	- C
						I			0) (0===		·		
					LUBR	ICA	IIN	IG OIL	SYSTEM	1			
	Wir	nterthu	ır Gas &	Diesel									
Carrie	aht IA!		Of Materi		Dimension		1				I		
By ta	iking p	ossession	of the docu	 All rights reserved. ment the recipient leither the whole nor 	Units Main Design	[m] [kg] Yes	Basic Ma Design G		9722 Q-Code	XXXXX	Net Weight Standard		152 /DS
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the pre	evious w	ritten conse	nt of Winterth	ur Gas & Diesel Ltd.	hei			טו	. , , , , ,		1 ayt/3		

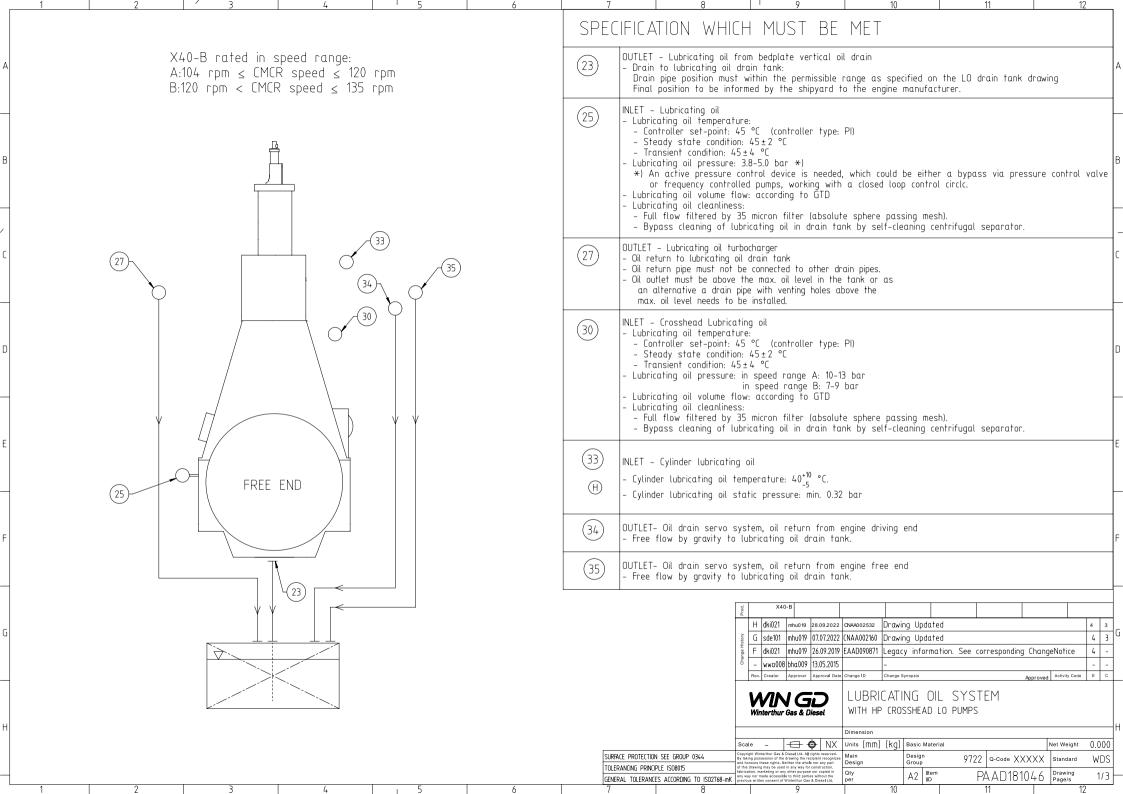
SEQ NO	QTY	Item ID		Item Name				D	Dimension	Standard-ID	Basic Material		\ \ \	Net Neight
1	1	PAAD1	81046	LUBRICATING	G OIL SYSTEM									0.001
3	1	PAAD2	245338	LUBRICATING	G OIL SYSTEM								(0.001
4	1	PAAD3	340882	LUBRICATING	G OIL DRAIN TA	NK								152
5	1		1.455.500	INSTRUCTIO	N FOR FLUSHIN	NG								0.001
				LUBRICATING	G OIL DRAIN TA	NK								
6	1	PAAD1	01140											0.001
Prod.			7 X40-B											
Б														
tory														
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Chi	-	sde101	mhu019	11.02.2020		-							-	-
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	1/	Л		=	UBE	RICA	TIN	IG C)II	SYSTEN	Л			
	V	V U									/I			
		nterthu	ır Gas &	Diesel		(10)				OTOTEN	/I			
			ır Gas &	Diesel							/I			
Copyr	Wir	Bill C	r Gas & Of Materia S & Diesel Ltd	Diesel al . All rights reserved.	Dimension Linits		1				/1	Net Weight		152
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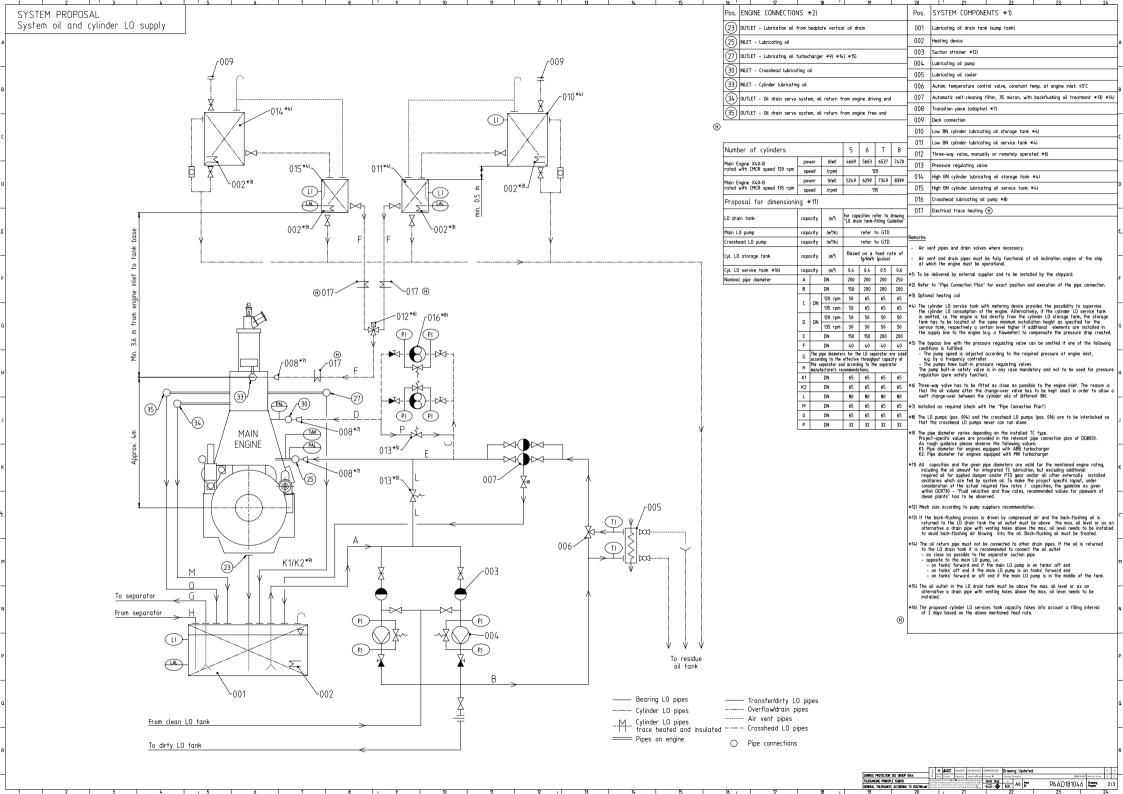
SEQ NO	QTY	Item ID		Item Name				Dimension	Standard-ID	Basic Material		V	Net /eight		
1	1	PAAD ²	181046	LUBRICATING	G OIL SYSTEM								0.001		
4	1	PAADS	340882	LUBRICATING	G OIL DRAIN TANK	<							152		
5	1	107.34	1.455.500	INSTRUCTION	TRUCTION FOR FLUSHING										
6	1	PAAD ²		LUBRICATING	BRICATING OIL DRAIN TANK										
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Prod.			7 X40-B												
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any p	art of tuction,	this docume fabrication, r	ent may be u marketing or a	sed in any way for ny other purpose nor o third parties without	Qty	Engine		Item	PAAD34				/01		
the pre	ını any evious v	way nor mad vritten conse	nt of Winterth	o third parties without ur Gas & Diesel Ltd.	per	Liigiile	/\ *	ID	1 AAD34	+ 1007	Page/s	UI	, 0 1		

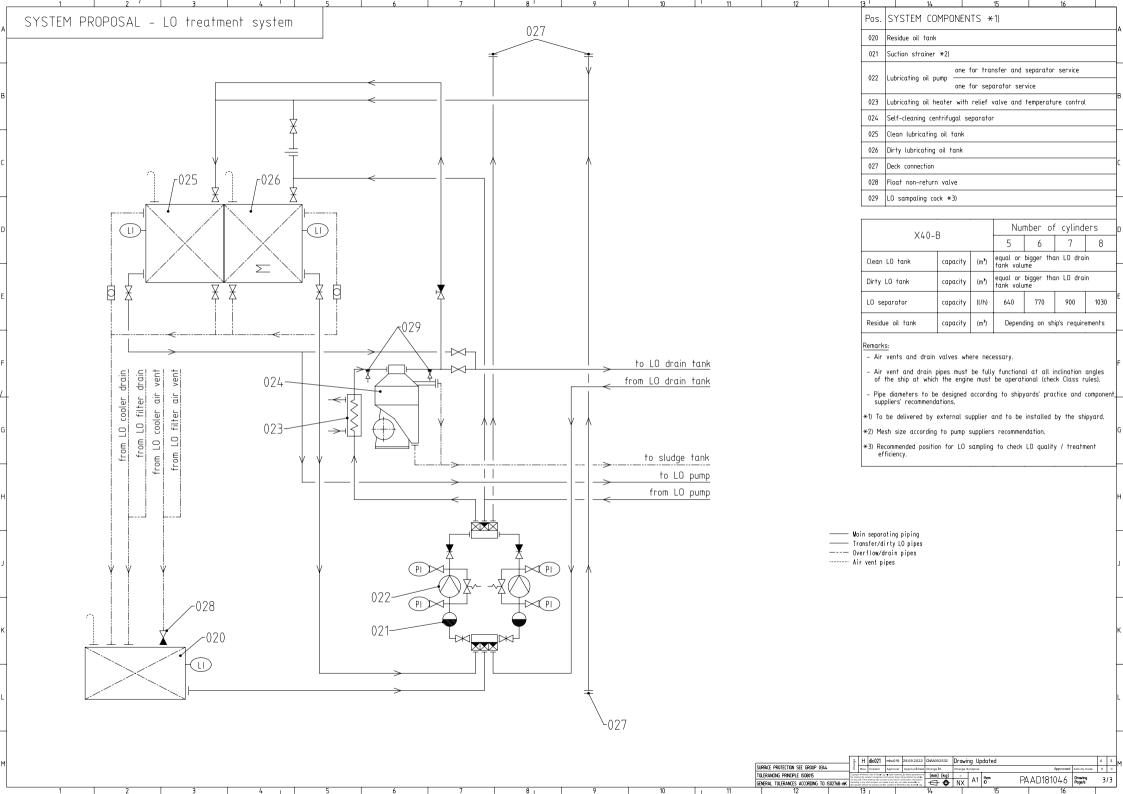


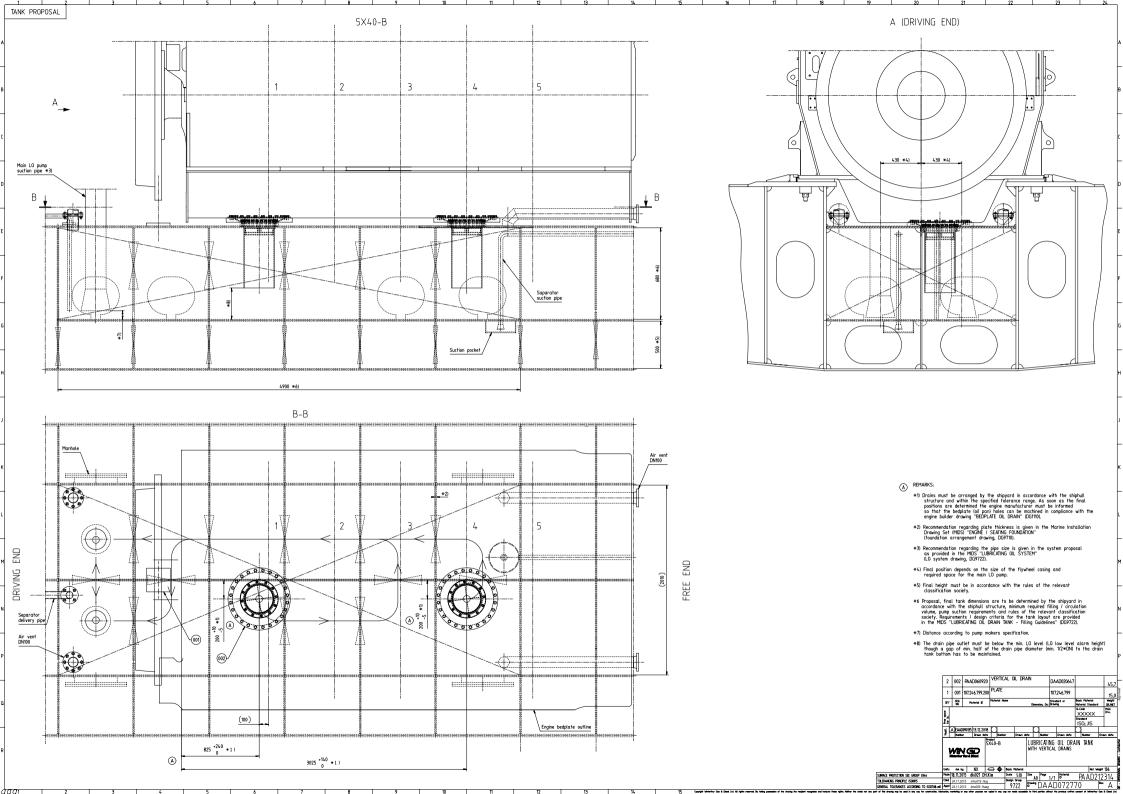


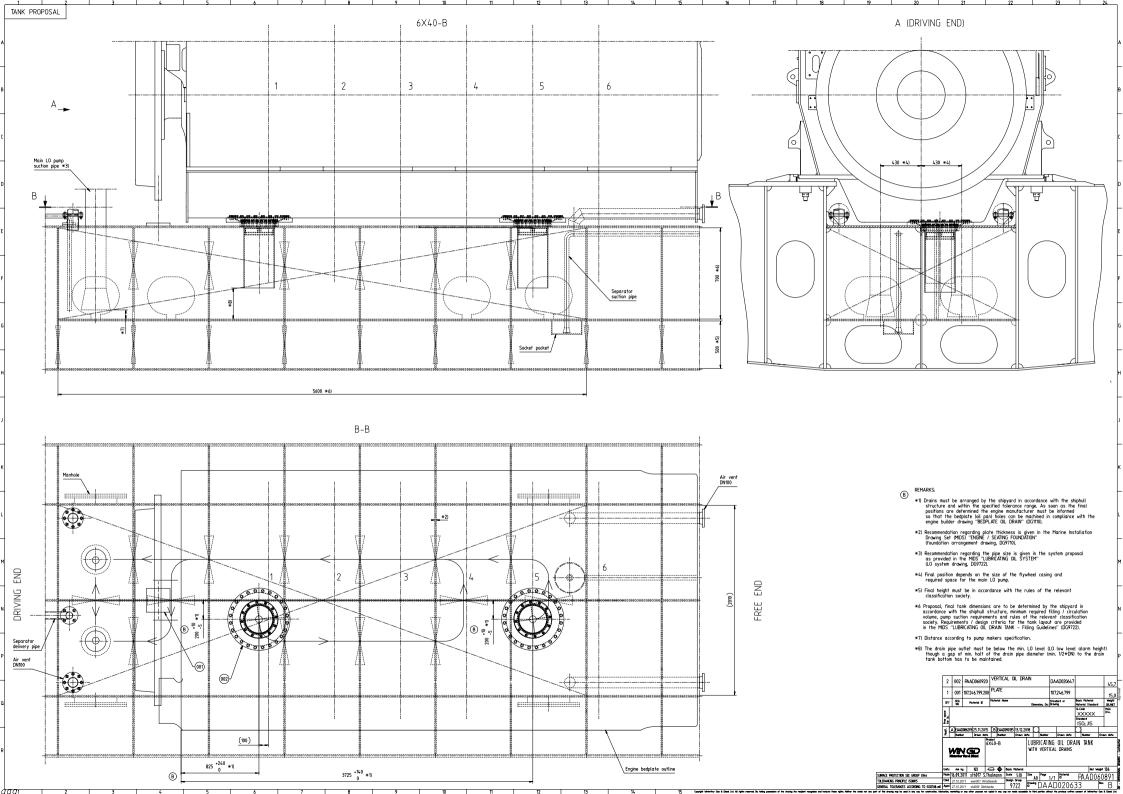


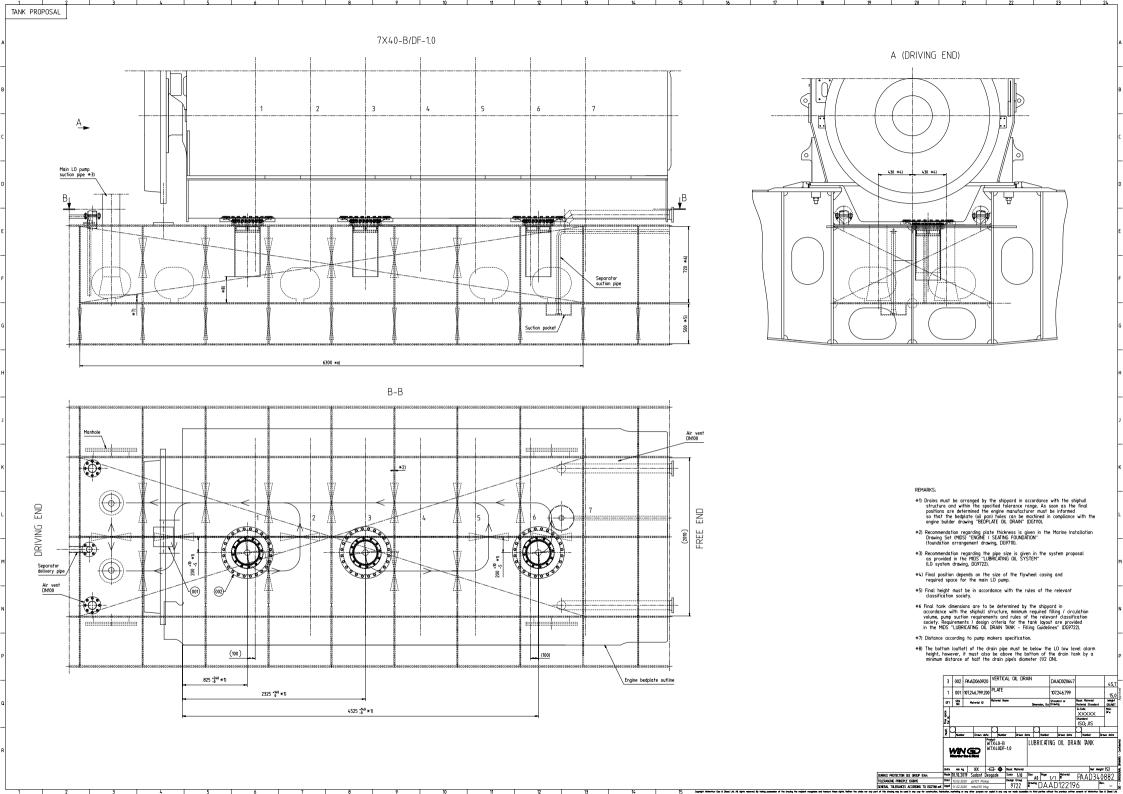


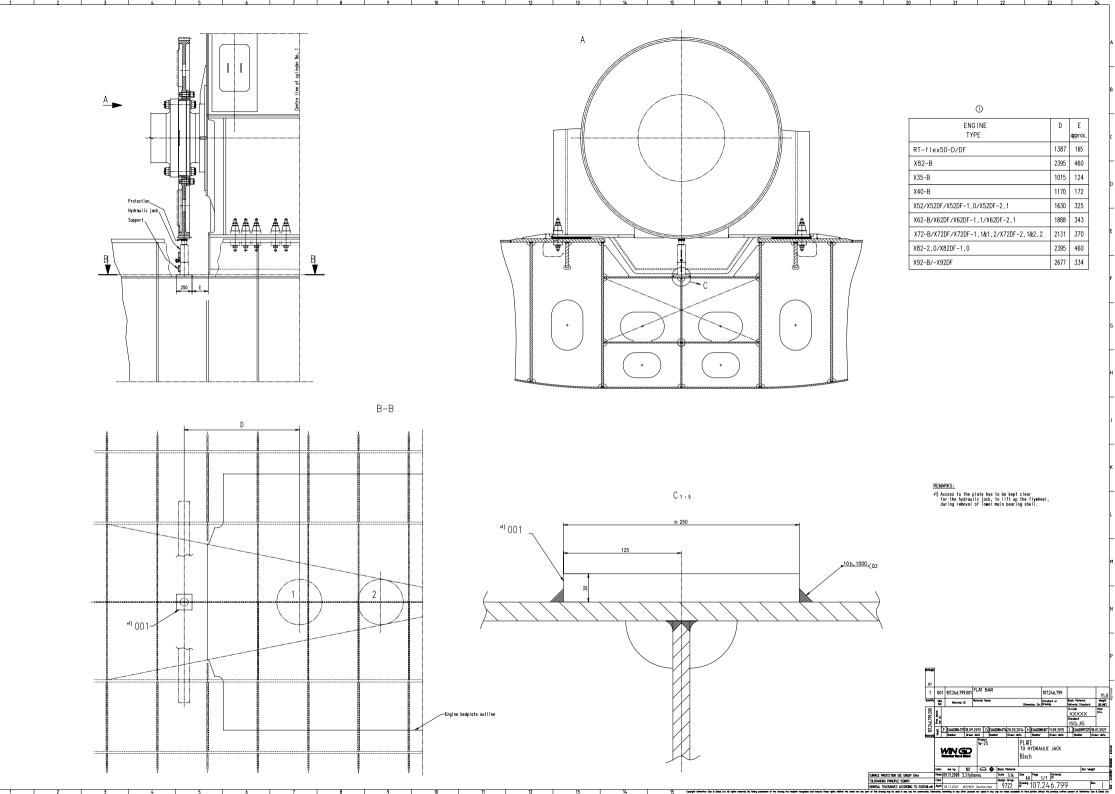


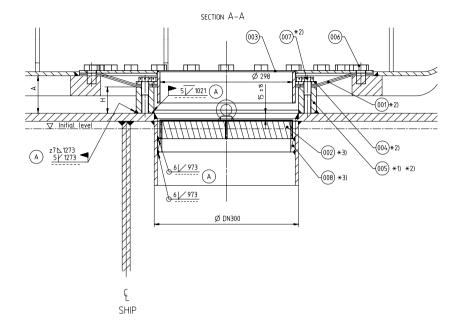


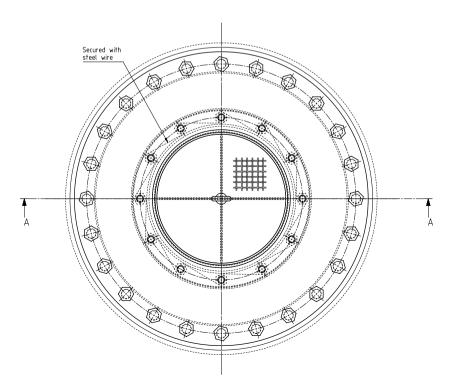












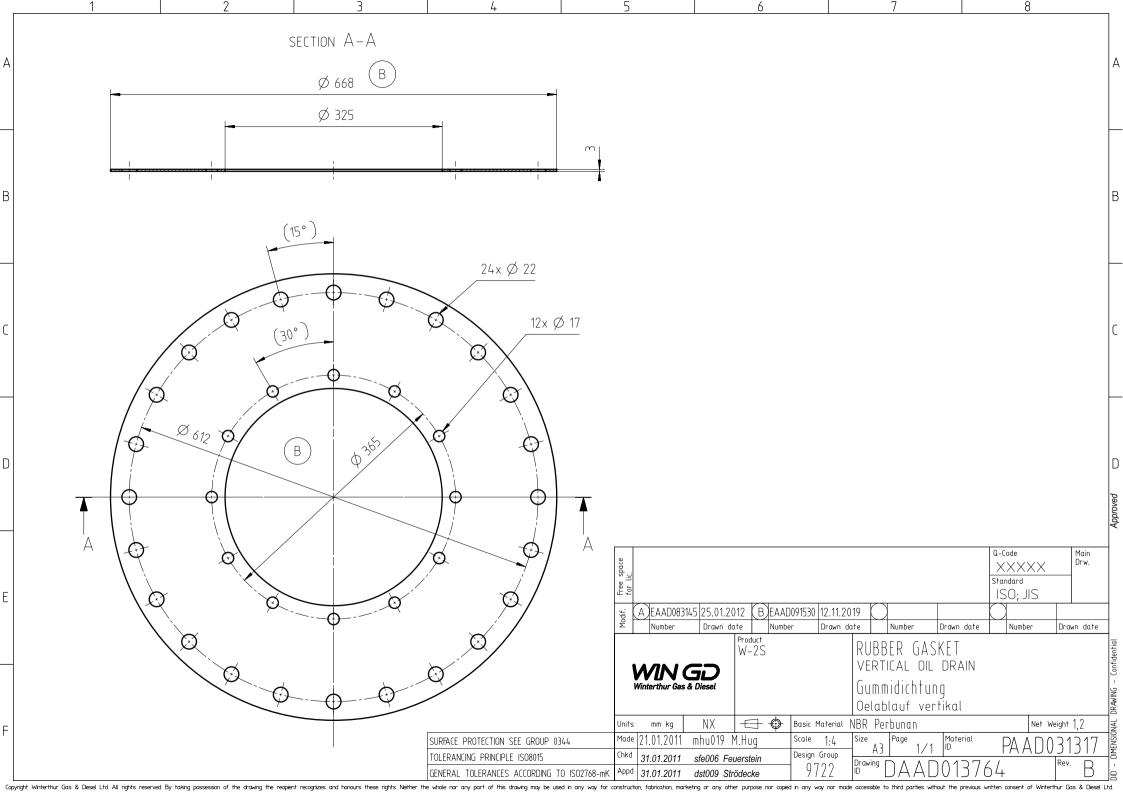
REMARKS:

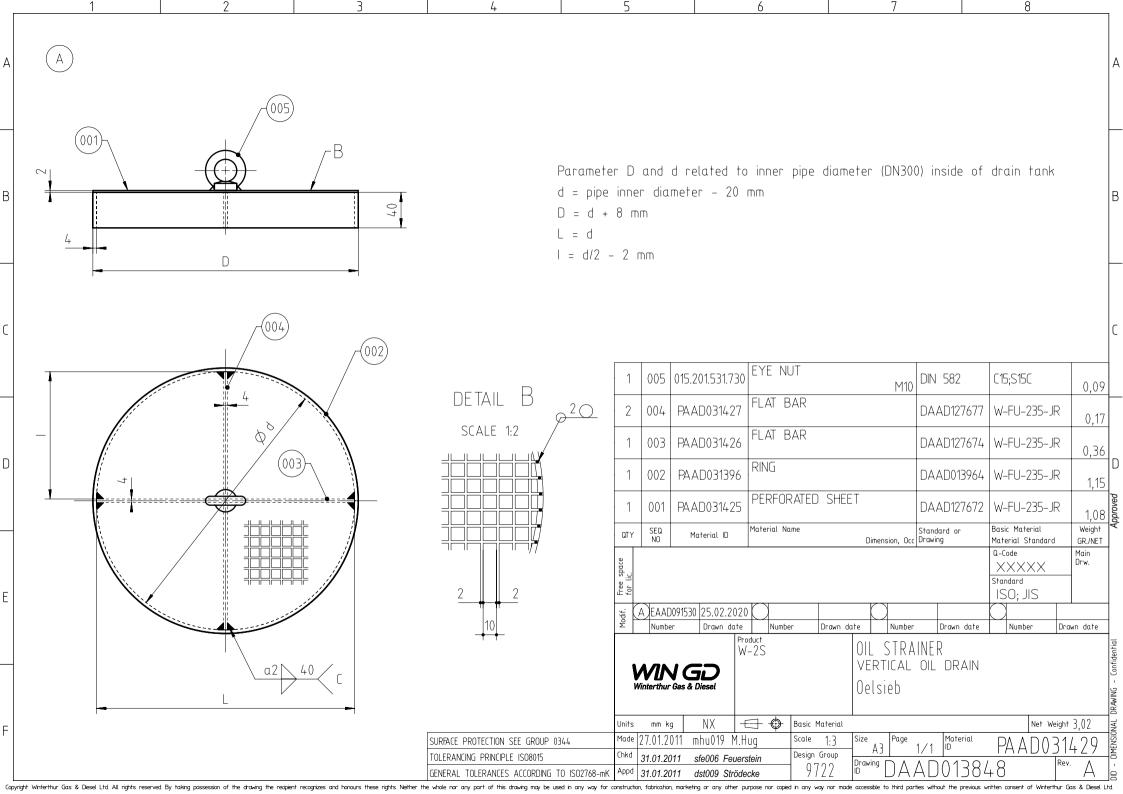
- *1) To be aligned after engine is in final position.
- *2) Pos. 001, 004, 005 and 007 to be pre-assembled prior to alignment. After alignment the Pos. 005 (flange) can be welded in place.
- \star 3) Designed for pipe \varnothing 323.9 x 7.1

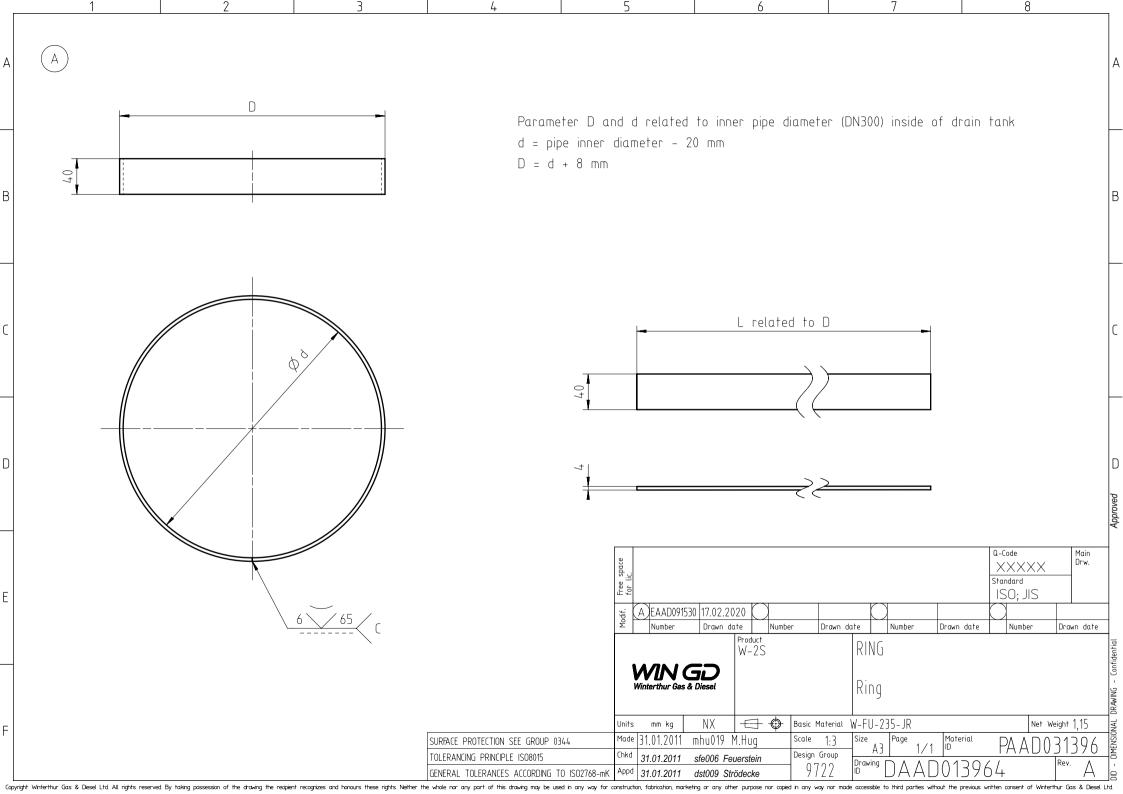
	А	To be measured after alignment of the engine	_
(A)	Н	A - 25 mm	

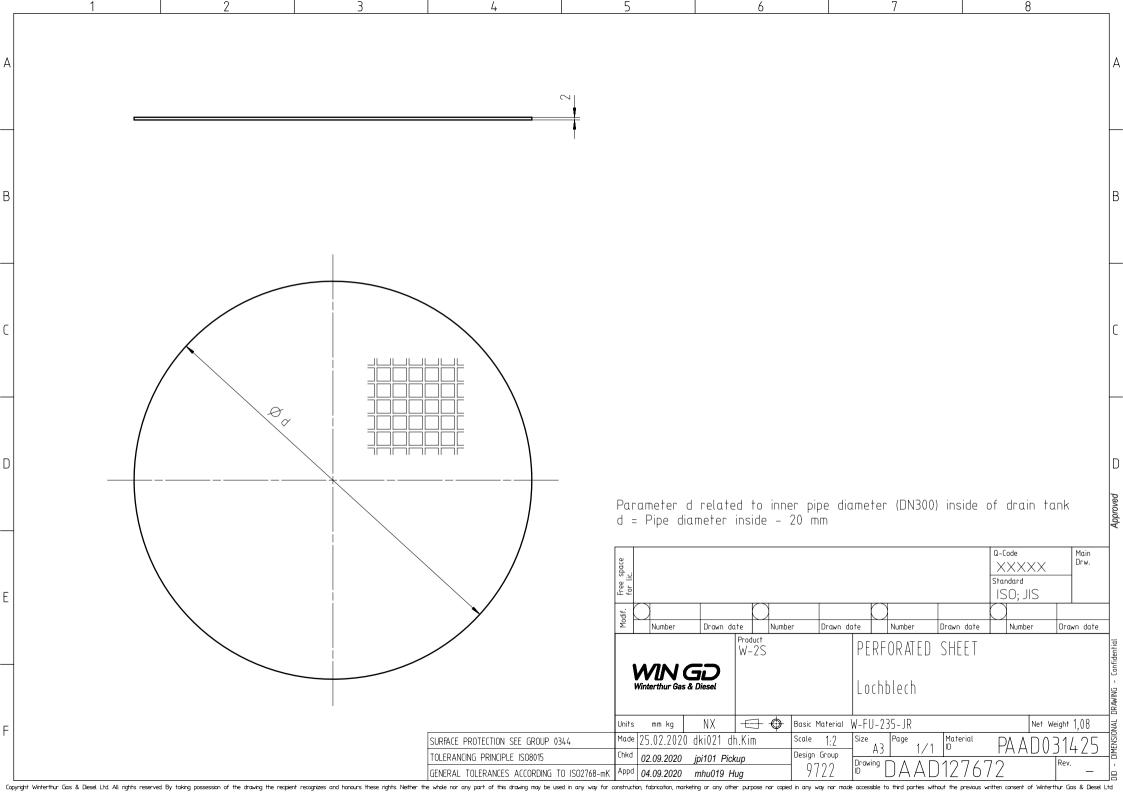
Items 001 to 008 are yard delivery.

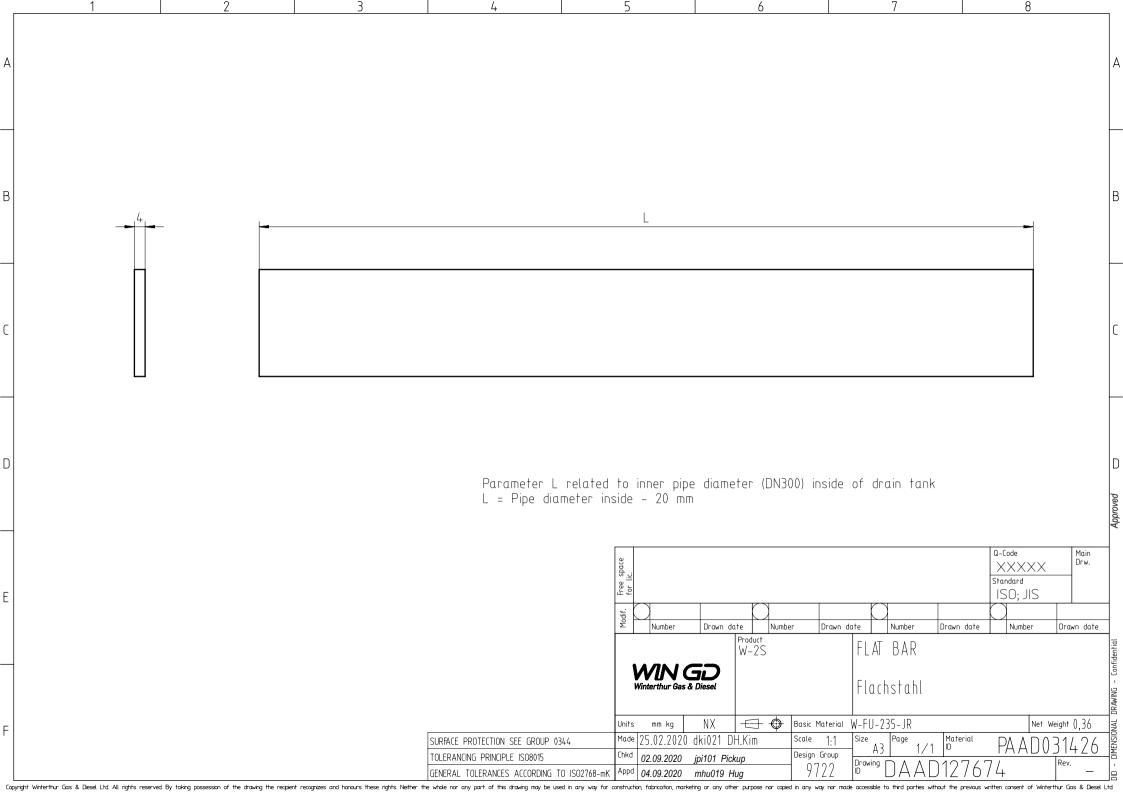
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		1	005	PAAD	06068	15	WELDIN	G FL	ANGE			DA	AD020574	W-F	J-235-JF	₹	20,0	
		1	004	PAAD	03094	,5 F	RING					DA	AD013763	W-F	J-235-JF	₹	2,4	H
		1	003	PAAE	06091	18	COVER					DA	AD020639			T	15,2	1
		1	002	PAAC	003142	9 (DIL STI	RAINE	R			DA	AD013848				3,02	
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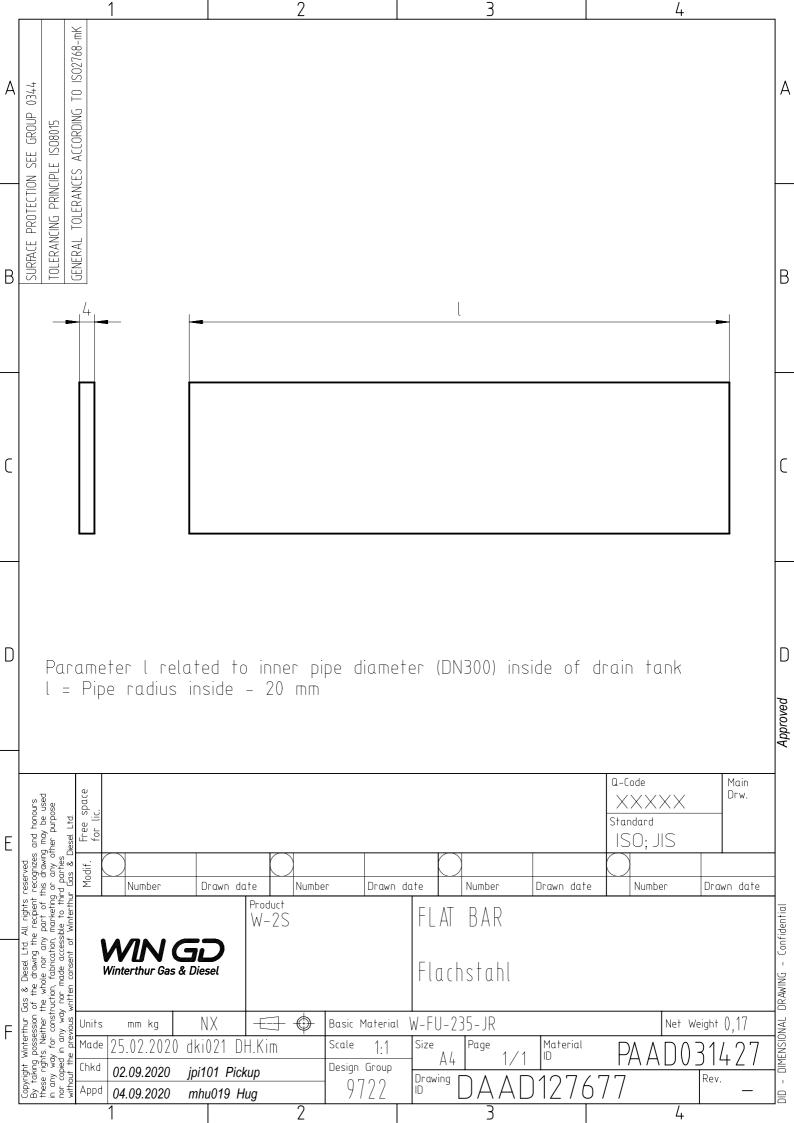


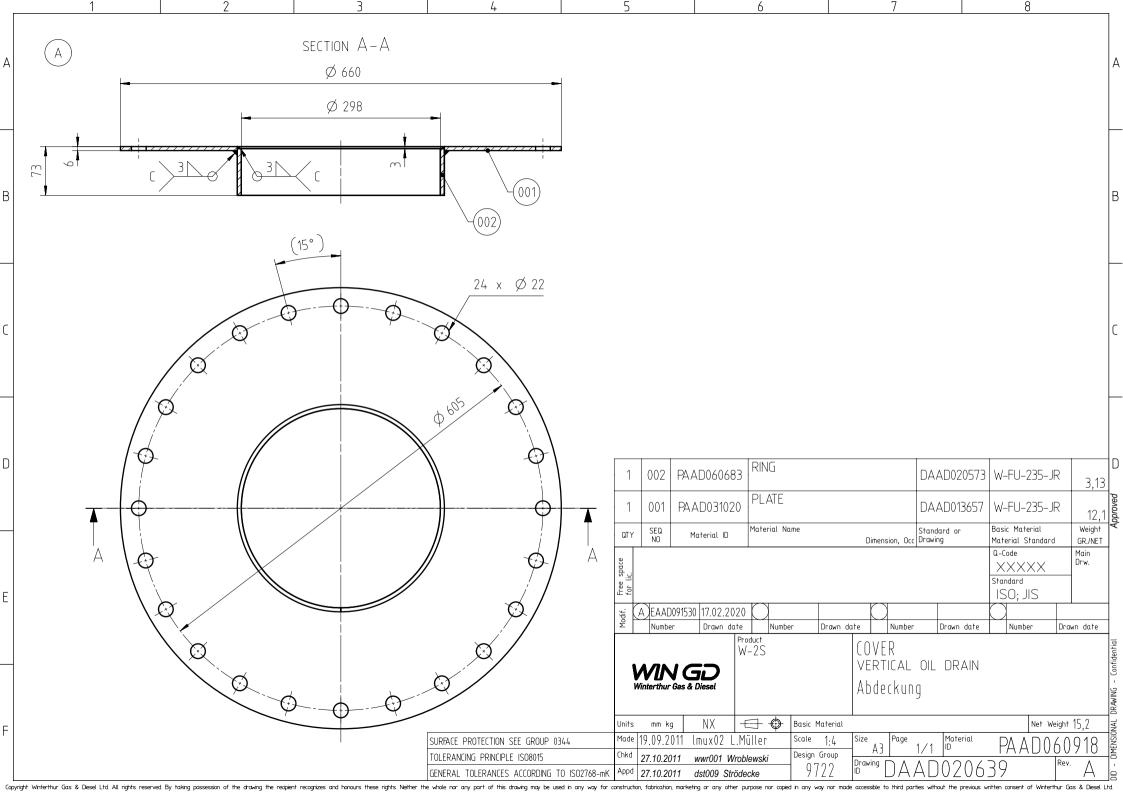


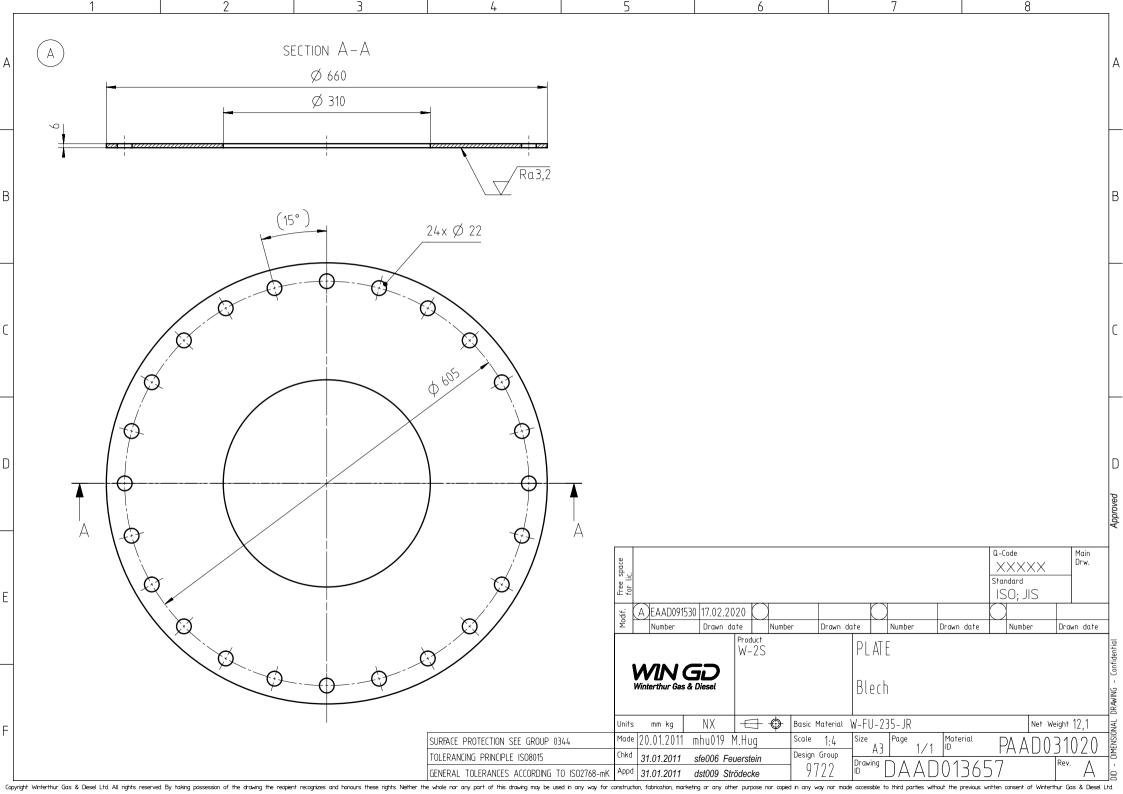


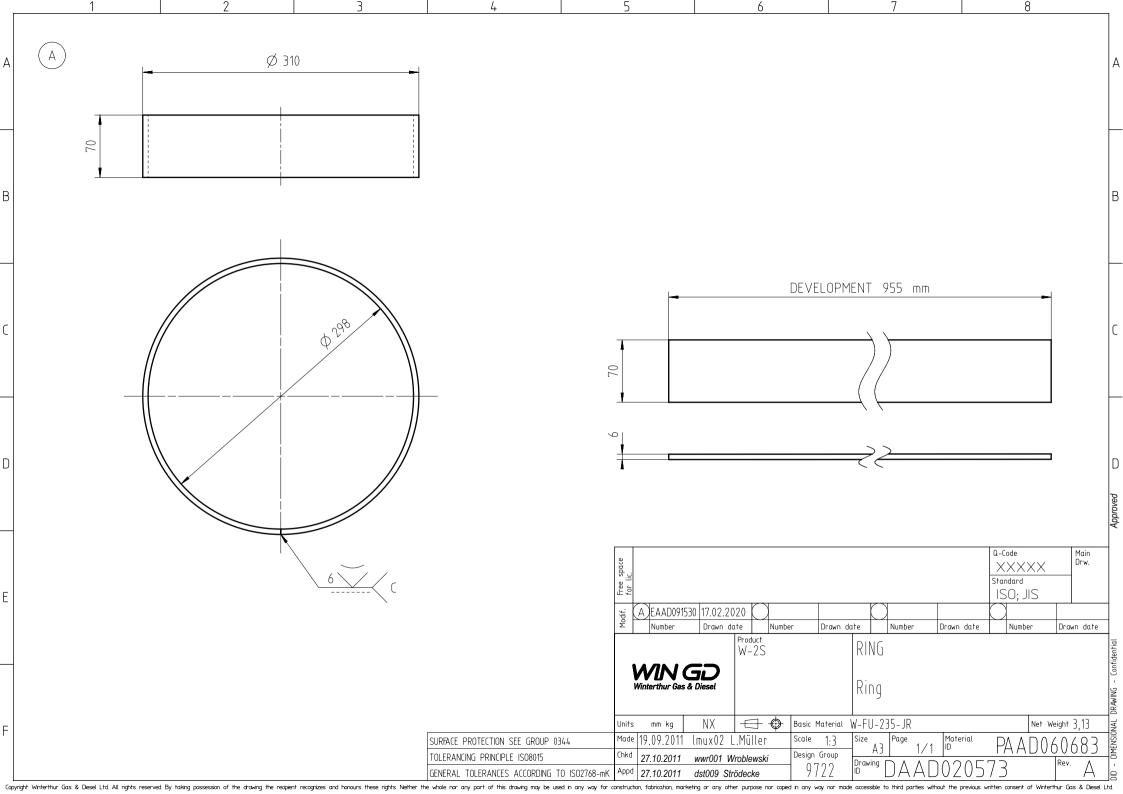


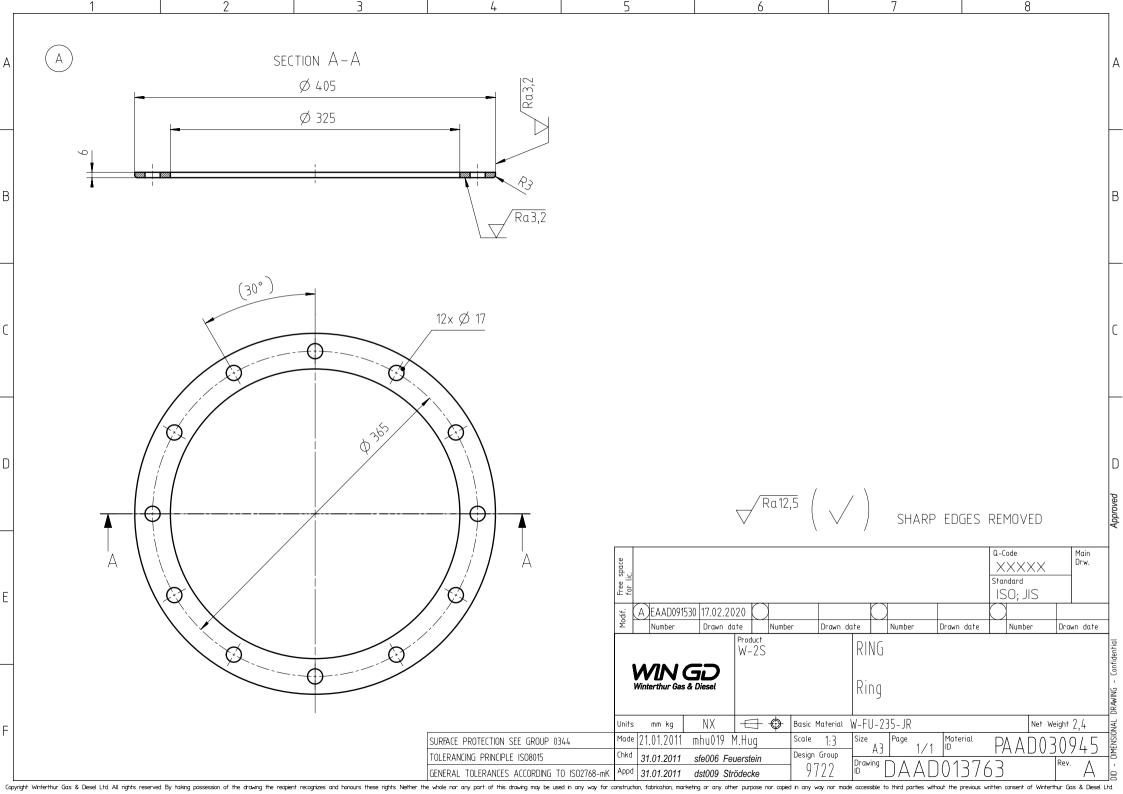


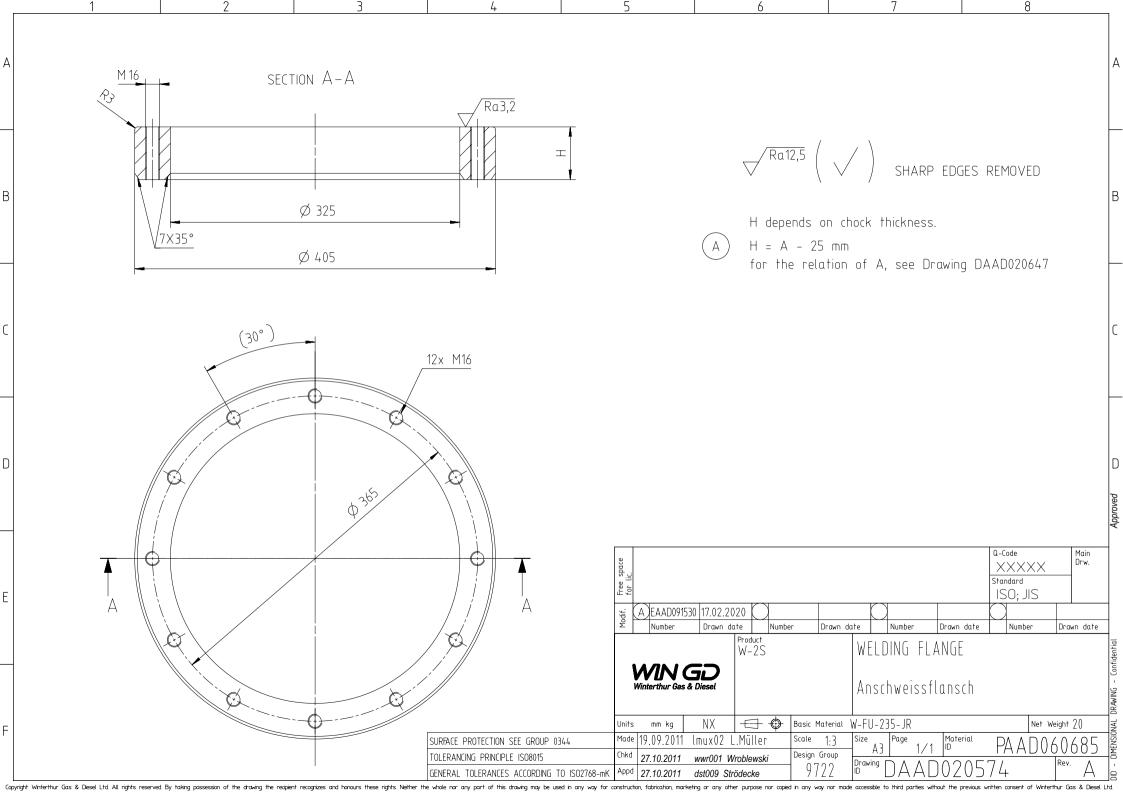


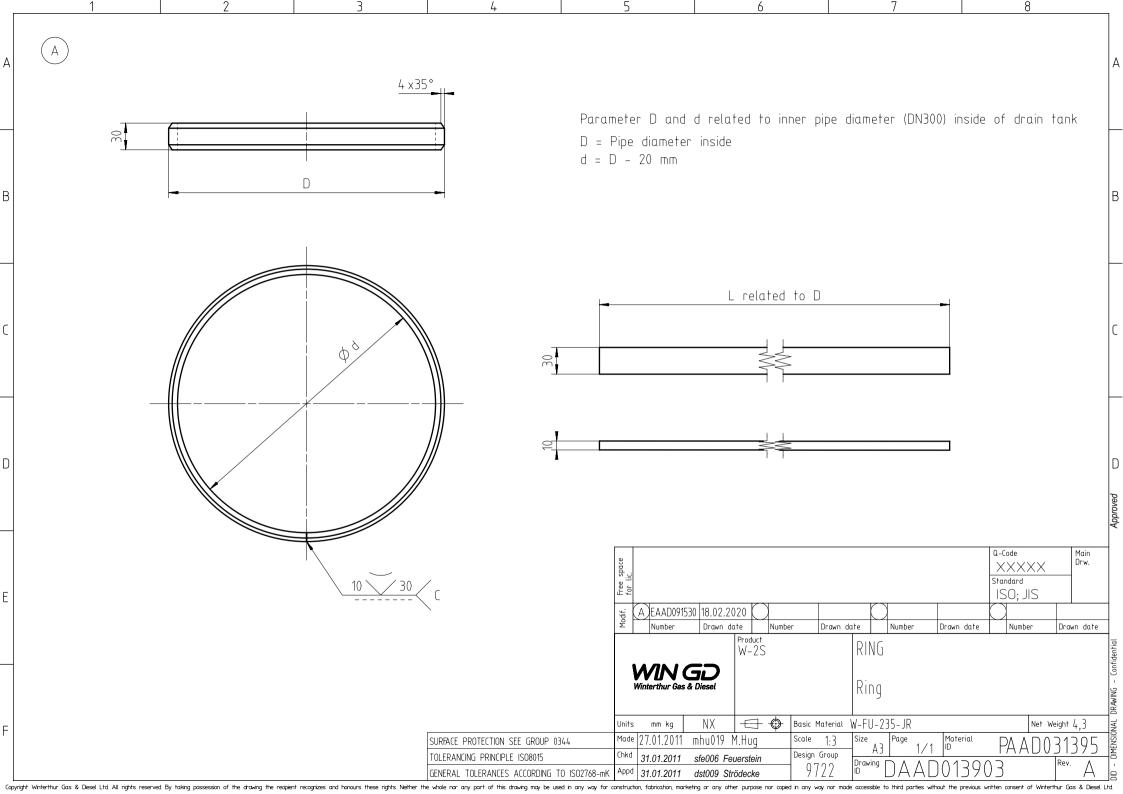




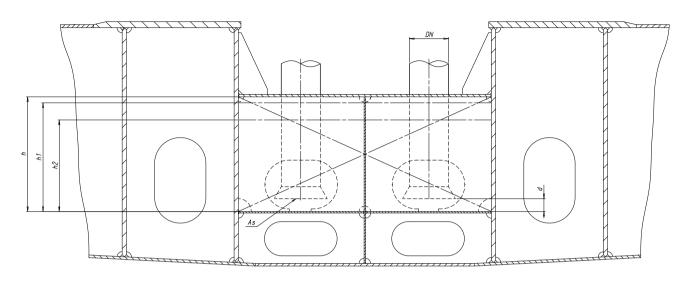




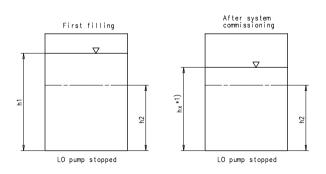


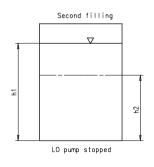


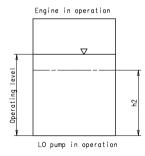
W-X40/-B



LO DRAIN TANK - FILLING PROCESS







Specifications that need to be met:

Dimensioning guidelines and capacities for tank design

No. of cylinders 5 6 8 Recommended total tank height according to installation requirements (mm) Recommended total tank volume: 105% *4) (m3) 8 Q 10 Recommended filling level (mm) according to installation requirements h1 Recommended volume: 100x +4) (m3) 10 Low-level alarm (mm) *2) Volume (m3) ۷r Min. retention volume *5) (m3) Distance between suction pipe and (mm) *3) d bottom of tank As Suction area min, 1,5 x suction pipe area (DN)

REMARKS:

0

(C)

(0)

- *1) Level after filling of external system. Volume and level in the LO drain tank depend on capacity of pipes, coolers, filters, etc. The oil volume in tank contains a port of the oil quantity, which drains back when the pumps are stopped.
- *2) The low-level alarm (h2) has to be positioned in such a way that a proper pump suction is ensured under the conditions defined by the classification societies.

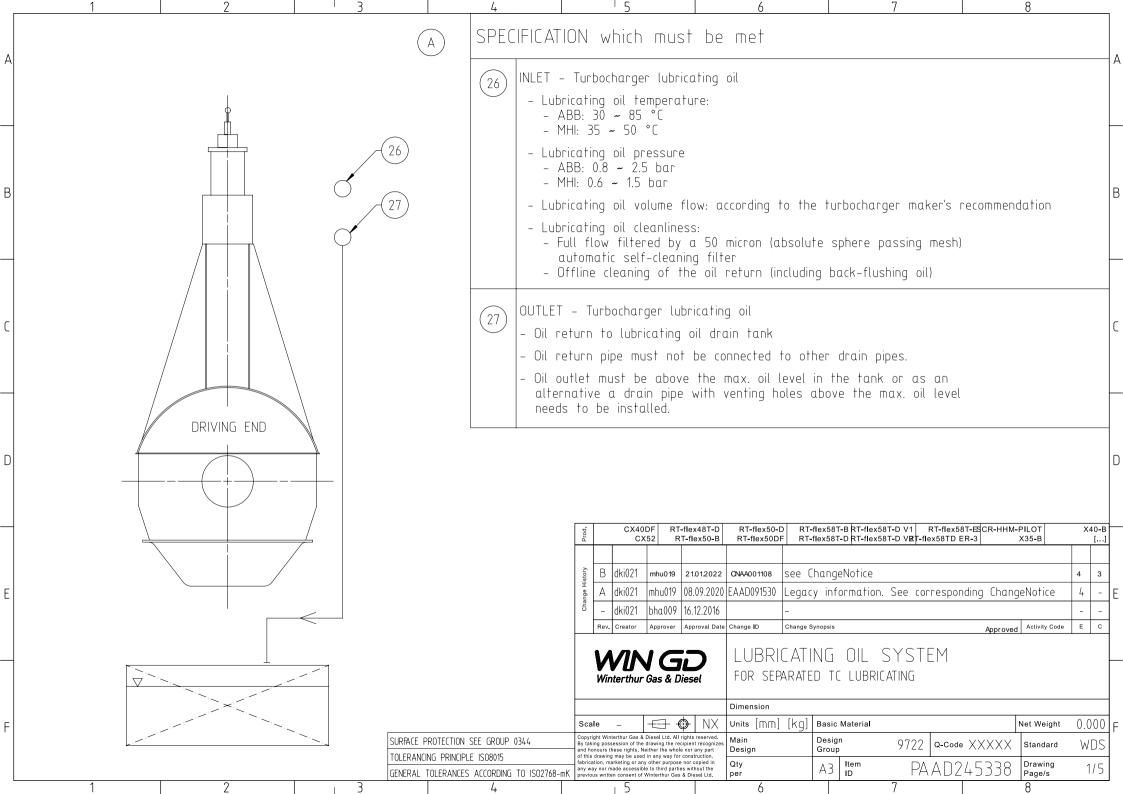
Minimum inclination angles comply with the rules of classification societies:

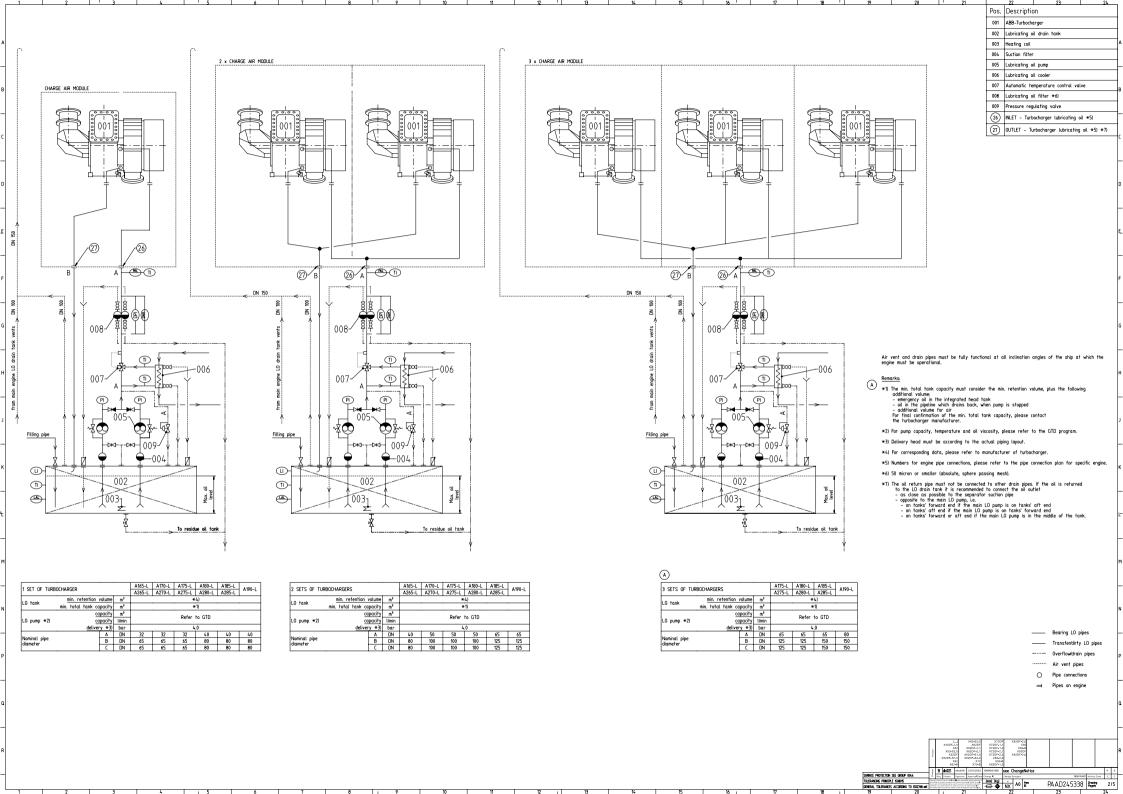
| Heel to each side | 15* | ±22.5 | 500/L, max. 5* | L: ship length in meter | Example L = 250 m | Trim = 500/250 = 2* | ± 7.5* |

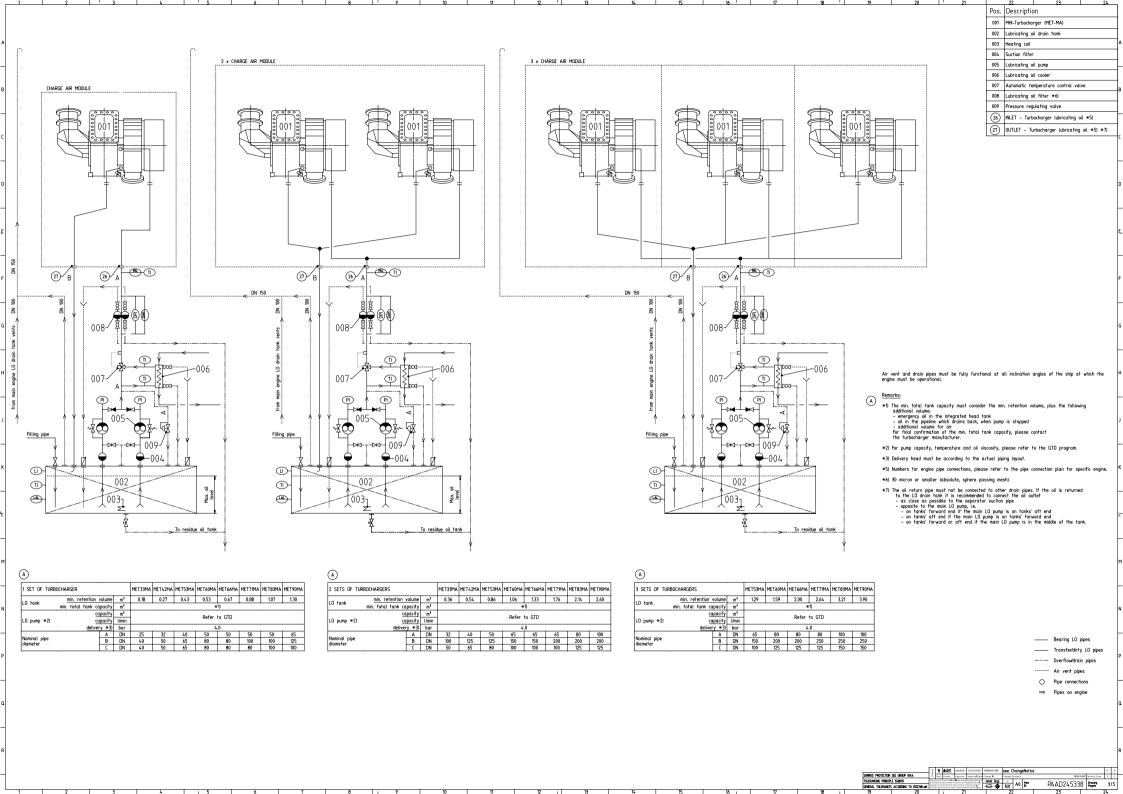
Additionally this level has to be above or equal to the minimum retention volume (Vr) for M/E operation.

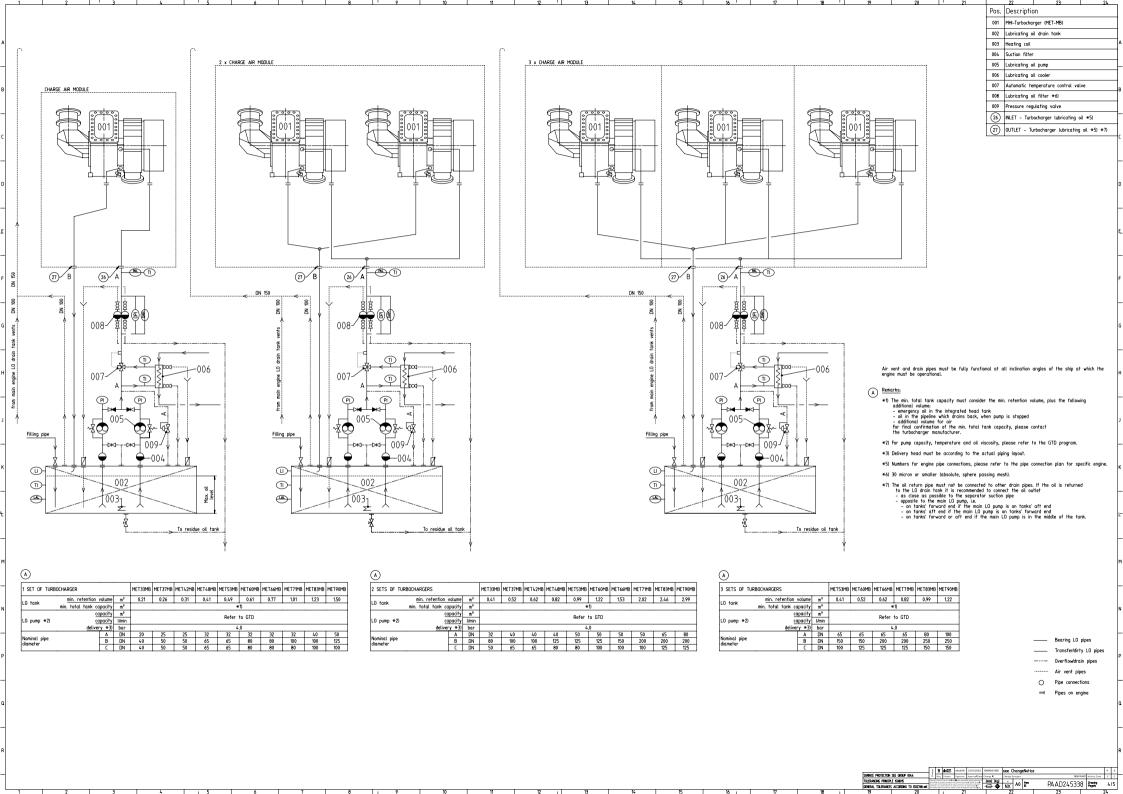
- *3) Distance (d) between suction pipe inlet of main LO pumps and LO drain tank bottom has to be in accordance with the requirements of the pump manufacturer. As guideline the following formula can be applied: d = DN/4 + 40, d = min. 80 mm.
- *4) The stated tank volume represent the min. requirement.
 Final tank dimensions have to be aligned in regard to
 dimensional restricions by ship and engine structure
 and the pump suction requirement.
- *5) To be maintained during engine operation (LO pump suction without LO drain back-flow (emergency case) is ensured for at least 3 minutes).

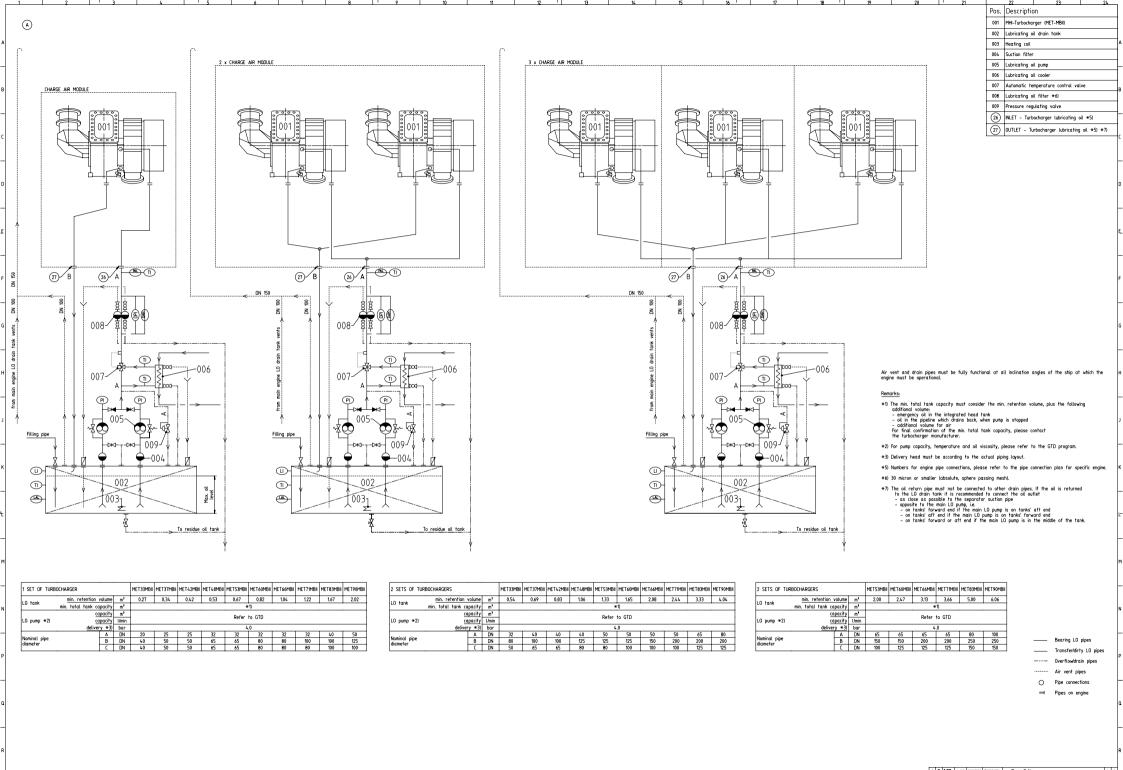






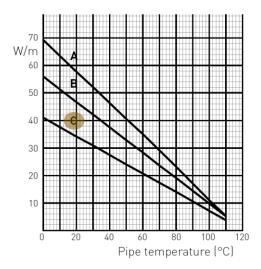






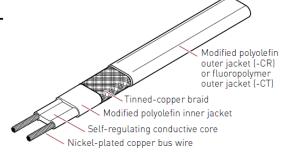
Self-Regulating Heating Cable 10QTVR2-CT

Order drawing



Heating cable construction

C 10QTVR2-CT



Specification:

Width:

purpose nor

Description: 10QTVR2-CT Order No.: 391991-000

Area Classification: Non-hazardous and hazardous locations

Traced surface type: Metal and plastic

Chemical Resistance: Exposure to aqueous inorganic chemicals: Use -CR

(modified polyolefin outer jacket)

Exposure to organic chemicals or corrosives: Use -CT

(fluoropolymer outer jacket)

Supply Voltage: 200-277 VAC

Temperature Rating: Maximum maintain or continuous exposure temperature (power on)

225°F (110°C)

Maximum intermittent exposure temperature, 1000 hours (power on)

225°F (110°C)

Minimum installation temperature -76°F (-60°C)

Minimum Bending Radius: 13 mm at 20°C

35 mm at -60°C

Height: 4.5 mm Supplier:

11.8 mm

www.pentairthermal.com

Weight: 0.126 kg/m

MAXIMUM CIRCUIT LENGHT BASED ON TYPE 'C' CIRCUIT BREAKERS ACCORDING TO EN60898 SUPPLY VOLTAGE 230 VAC								
Electrical protection sizing	Start-up temperature	Maximum heating cable length per circuit [m]						
16A	-20°C	65						
	+10°C	80						
25A	-20°C	95						
	+10°C	115						
32A	-20°C	115						
	+10°C	115						
40A	-20°C	115						
	+10°C	115						

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All rights reserved. By t	Winterthur Gas & Diesel								Heating Element Order Drawing													
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MIDS - WinGD X40-B LUBRICATING-OIL-SYSTEM (DG9722)

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2017-02-20	DRAWING SET	First web upload
2018-05-22	DAAD075220 DAAD062692	System drgs – new revision
2019-07-17	DAAD072770 DAAD020633	Drain tank drgs – new revision
2019-09-26	DAAD062692	System drg – new revision
2020-02-12	DAAD122303 DAAD122196	Main and system drg for 7 cyl added
2020-09-21	DAAD075220 DAAD072770 DAAD020633 DAAD020647 DAAD013764 DAAD013848 DAAD013964 DAAD020639 DAAD013657 DAAD020573 DAAD013763 DAAD013763 DAAD013903 DAAD013903 DAAD083642 DAAD127677 DAAD127677	System and tank assembly drgs – new revision
2021-05-19	107.246.799	Hydraulic jack plate positioning drawing – new revision
2022-07-12	PAAD181046 PAAD218151	System drgs – new revision

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2023-01-05

PAAD181046 PAAD218151

System drgs - new revision

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