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	E GROUP	1508015	ACCORDING	001	PTAA	058056	5		X						
	ON SEE	PRINCIPLE		002	PTAA	058059	5	X							
	PROTECTION		TOLERANCES	003		381281	6		X						
	PRO	NCING		004	PAAD	381282	6	X							
В	SURFACE	TOLERANCING	GENERAL												В
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		V	<b>VU</b>	V Gi ur Gas & Die	<b>5</b>	LUB	BRICAT		L SYST	EM		Activity Code		l Ü	
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F	Sca		_			Units [	nm] [kg]		ial			Net Weight	0.	001	F
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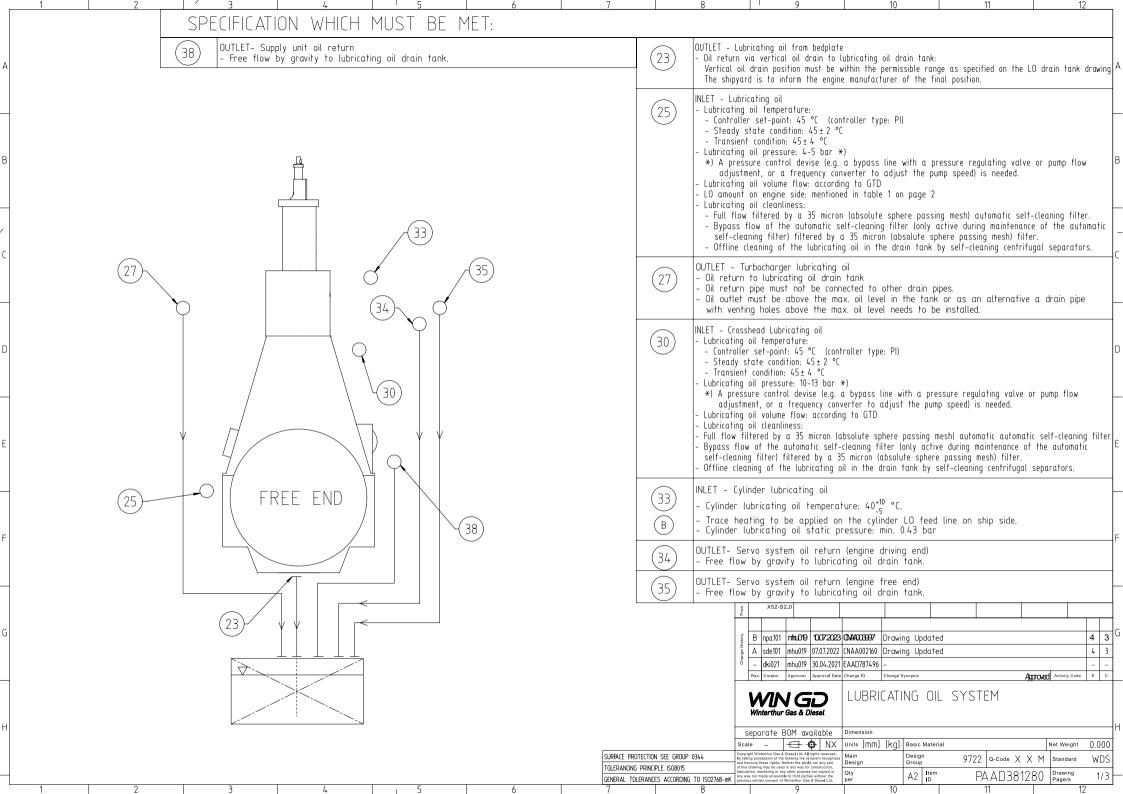
SEQ NO	QTY	Item ID		Item Name			Dimension	Standard-ID	Basic Material		V	Net Veight
001	1	PAADS	381280	LUBRICATING	G OIL SYSTEM							0.001
002	1	PTAAC	58055	LUBRICATING	G OIL DRAIN TANK	<u>,                                      </u>						165
003	1		1.455.500	INSTRUCTIO	N FOR FLUSHING							0.001
				LUBRICATING	G OIL DRAIN TANK							
004	1	PAAD1	178480	205/110/11111	0 012 010 011 17 0110	•					(	).001
Prod.												
			5 X52-S	2.0								
			5 X52-S	2.0								
History												
Change History		sde101	mhu019	06.04.2023	CNAA003525	Drawing update					4	3
Change History	-	sde101 npa101 Creator	mhu019		CNAA003525 CNAA003511 Change ID	Drawing update New MainDesig Change Synopsis				Activity Code	4 - E	3 -
Change History	- Rev.	npa101 Creator	mhu019 mhu019 Approver	06.04.2023 05.04.2023 Approval Date	CNAA003511 Change ID	New MainDesig Change Synopsis	n			Activity Code	-	-
Change History	- Rev.	npa101 Creator	mhu019 mhu019 Approver	06.04.2023 05.04.2023 Approval Date	CNAA003511 Change ID	New MainDesig Change Synopsis	n	SYSTEM	1	Activity Code	-	-
Change History	- Rev.	npa101 Creator	mhu019 mhu019 Approver	06.04.2023 05.04.2023 Approval Date	CNAA003511 Change ID	New MainDesig Change Synopsis	n	SYSTEM	1	Activity Code	-	-
	- Rev.	npa101 Creator  VIII nterthu	mhu019 mhu019 Approver  Approver  Of Materi	06.04.2023 05.04.2023 Approval Date  Diesel al	CNAA003511 Change ID  LUBR Dimension	New MainDesig Change Synopsis	IG OIL	SYSTEM	1		- E	- C
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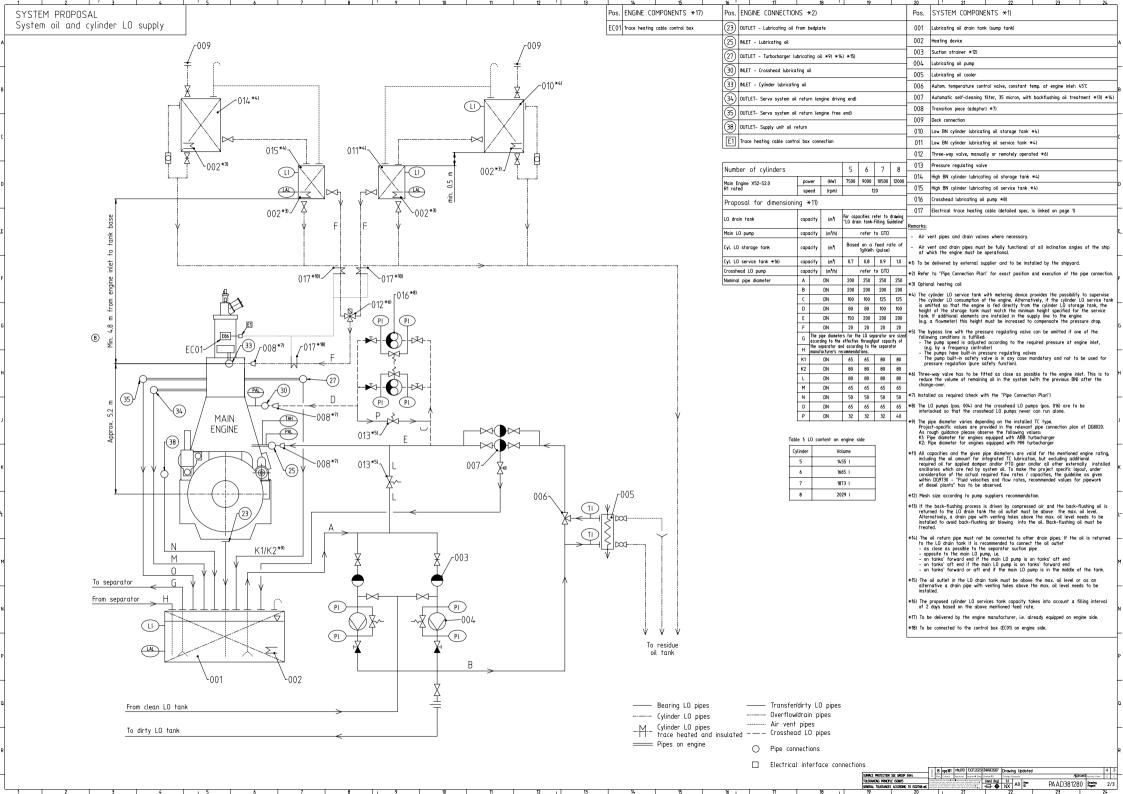
SEQ NO	QT	/ Item ID		Item Name		Dimension Standard-ID Basic Material		Net Weight
001	1	PAAD:	381280	LUBRICATING	G OIL SYSTEM			0.001
002	1	PAAD	245338	LUBRICATING	G OIL SYSTEM			0.001
003	1	PTAA	158055	LUBRICATING	G OIL DRAIN TANK			165
				INSTRUCTION	N FOR FLUSHING			
004	1		1.455.500	LUBRICATING	G OIL DRAIN TANK			0.001
005	1	PAAD	178480	LODINIOATING	J OIL DIVAIN TAIN			0.001
Prod.		Γ	5 X52-S	2.0	_		<u> </u>	ı
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Change History	Α	sde101	mhu019	06.04.2023	CNAA003525	Drawing update	4	3
Chan	-	npa101	mhu019	05.04.2023	CNAA003511	New MainDesign		
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis Activity 0	-	-
				rippional Dato	onango 12			- C
	14	<b>АЛІ</b>				<u>'</u>		
			VC	5D		CATING OIL SYSTEM		
		nterthu	V C	Diesel	LUBR	<u>'</u>		
Соруг	Wi	Bill (	V Car Gas & Dif Materia & Diesel Ltd.	Diesel al A. All rights reserved.	LUBR Dimension	CATING OIL SYSTEM	ode E	С
By to recog	ight Waking	Bill (interthur Ga	of Materi s & Diesel Ltr of the docu	Diesel  A. All rights reserved. ment the recipient leither the whole nor	LUBR Dimension Units Main Design	<u>'</u>	tode E	
By ta recog any p constr copied	right Wind aking nizes a part of ruction, d in any	Bill ( Interthur Ga possession Ind honours Ithis docume fabrication, It way nor mai	of Materi s & Diesel Ltd of the docu then may be u marketing or a de accessible t	Diesel  Al All rights reserved.	LUBR Dimension Units Main Design	CATING OIL SYSTEM  [m] [kg] Basic Material Net Weigh	ode E	C 165

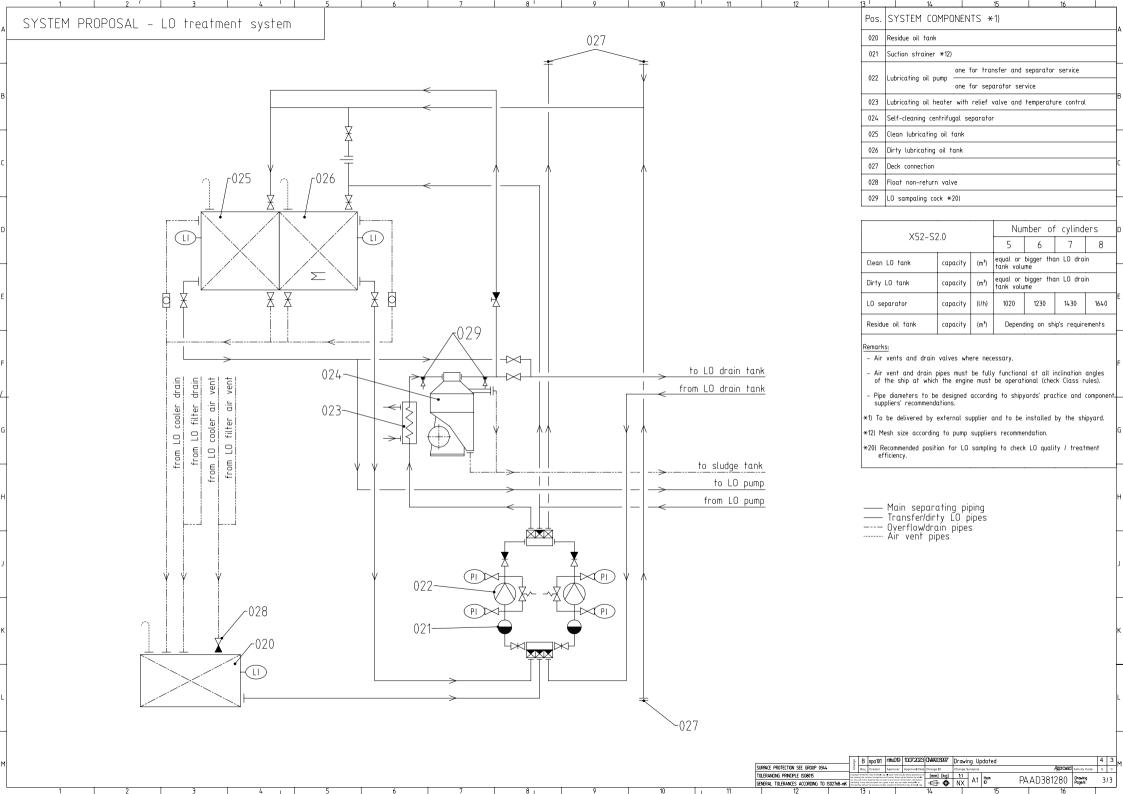
SEQ NO	QTY	Item ID		Item Name				Dimension	Standard-ID	Basic Material		V	Net Veight
1	1	PAAD	381280	LUBRICATING	G OIL SYSTEM							(	0.001
3	1	PAAD	381279	LUBRICATING	OIL DRAIN TANK	(							165
5	1	107.34	11.455.500	INSTRUCTION	N FOR FLUSHING							(	0.001
6	1	PAAD	178480	LUBRICATING	GOIL DRAIN TANK	(						(	0.001
Prod.			6 X52-S	2.0									
								1					
Change History													
Chang	-	dki021	mhu019	30.04.2021		-						-	-
	Rev.	Creator	Approver	Approval Date	Change ID	Change S	ynopsis				Activity Code	Е	С
	Wir	Bill (	ur Gas & Of <b>M</b> ateria	al	PAAD2528		TIN	IG OIL	SYSTEM	1			
Bv ta	akina p	ossession	of the docu	I. All rights reserved. ment the recipient either the whole nor	Offico	[m] [kg]	Basic Mat Design G		9722 Q-Code	XXXXX	Net Weight Standard		165 /DS
any p constr	art of t uction, f lin any v	his documon abrication, way nor ma	ent may be us marketing or as de accessible to	sed in any way for ny other purpose nor o third parties without ur Gas & Diesel Ltd.		Engine	Λ.4	Item ID	PAAD38	24204	BOM Page/s		1/01

NO	QTY	Y Ite	tem ID	Item Name				Dimension	Standard-ID	Basic Material		V	Net Weight
1	1	P.	PAAD381280	LUBRICATING	OIL SYSTEM							(	0.001
2	1	P	PAAD245338	LUBRICATING	OIL SYSTEM							(	0.001
3	1	P	PAAD381279	LUBRICATING	OIL DRAIN TAN	K							165
5	1	10	107.341.455.500	INSTRUCTION	N FOR FLUSHING	<u> </u>						(	0.001
6	1	P	PAAD178480	LUBRICATING	GOIL DRAIN TAN	K						(	0.001
Prod.			6 X52-S2	2.0							Ţ		
			6 X52-S2	2.0									
			6 X52-S2	2.0									
Change History Prod.		dki0		30.04.2021		-						-	-
		dkiO	021 mhu019		Change ID	- Change S	ynopsis				Activity Code	- E	
Change History	Rev.	Creat	021 mhu019 ator Approver  The Gas & Bill Of Materia	30.04.2021 Approval Date  Diesel	LUBR PAAD252	ICA 825	TIN		SYSTEM	1	-		С
Change History	Rev.	Creat  Inter  interth posses and hor	021 mhu019 ator Approver	30.04.2021 Approval Date  Diesel  All rights reserved. ment the recipient either the whole nor	LUBR PAAD252	ICA 825 [m] [kg]		erial	SYSTEN 9722 Q-Code		Activity Code  Net Weight Standard		

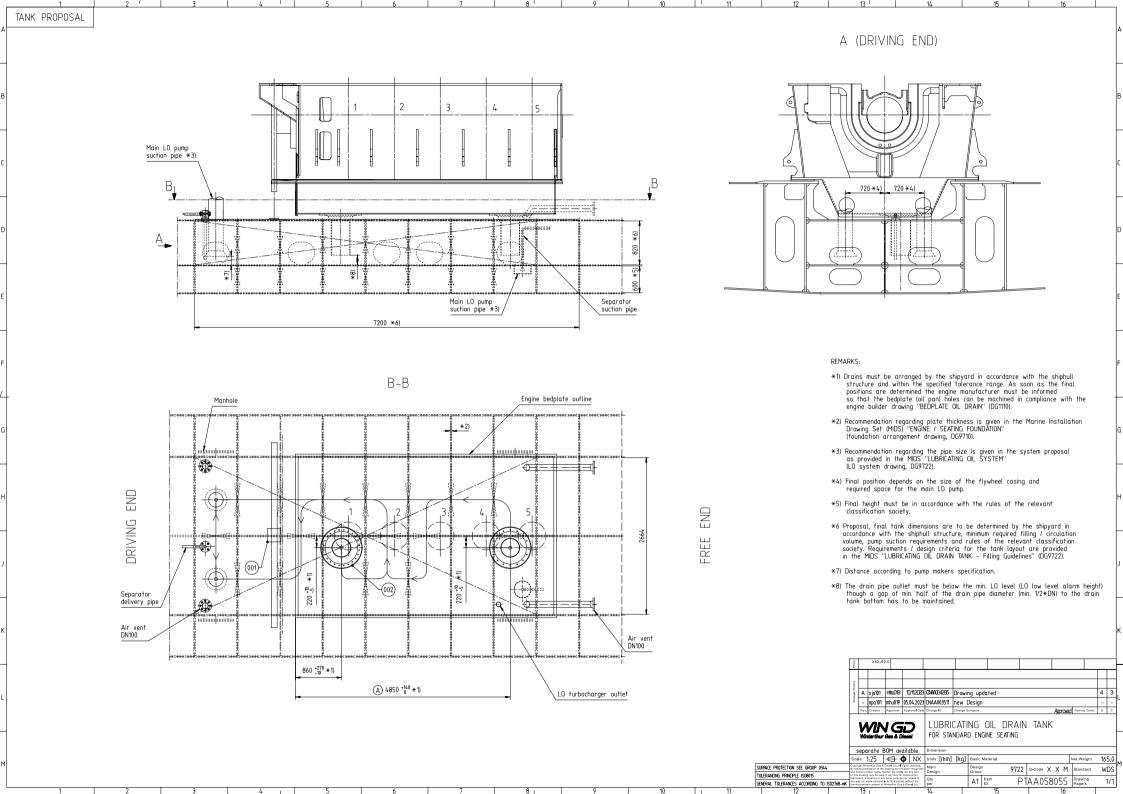
		' Item ID		Item Name				Dimension	Standard-ID	Basic Materia	l	١	N Weig
17	1 m	PAAD	308926	HEATING ELE	EMENT			10QTVR2-CT					0.12
										l			
50-		X52-	-\$2.0										
50-		X52-	-S2.0										
	В	X52- npa101	-\$2.0 ntn.019	10072023	<b>CARCO3997</b>	Drawin	g Updated	d				4	
	B		ntn.019	10072023 07.07.2022	<b>CAXCO3997</b> CNAA002160		g Updated g Updated					4 4	1
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		npa101 sde101	<b>nh.019</b> mhu019	07.07.2022	CNAA002160		g Updated			Approved	Activity Code	4	
	A - Rev.	npa101 sde101 dki021 Creator	mhu019 mhu019 Approver	07.07.2022 30.04.2021 Approval Date	CNAA002160 EAAD787496 Change ID	- Change S	g Updated	1	QVQTE		Activity Code	4	
	A - Rev.	npa101 sde101 dki021 Creator	mhu019 mhu019 Approver	07.07.2022 30.04.2021 Approval Date	CNAA002160 EAAD787496 Change ID	- Change S	g Updated	1	SYSTE		Activity Code	4	
	A - Rev.	npa101 sde101 dki021 Creator	mhu019 mhu019 Approver	07.07.2022 30.04.2021 Approval Date	CNAA002160 EAAD787496 Change ID	- Change S	g Updated	1	SYSTE		Activity Code	4	
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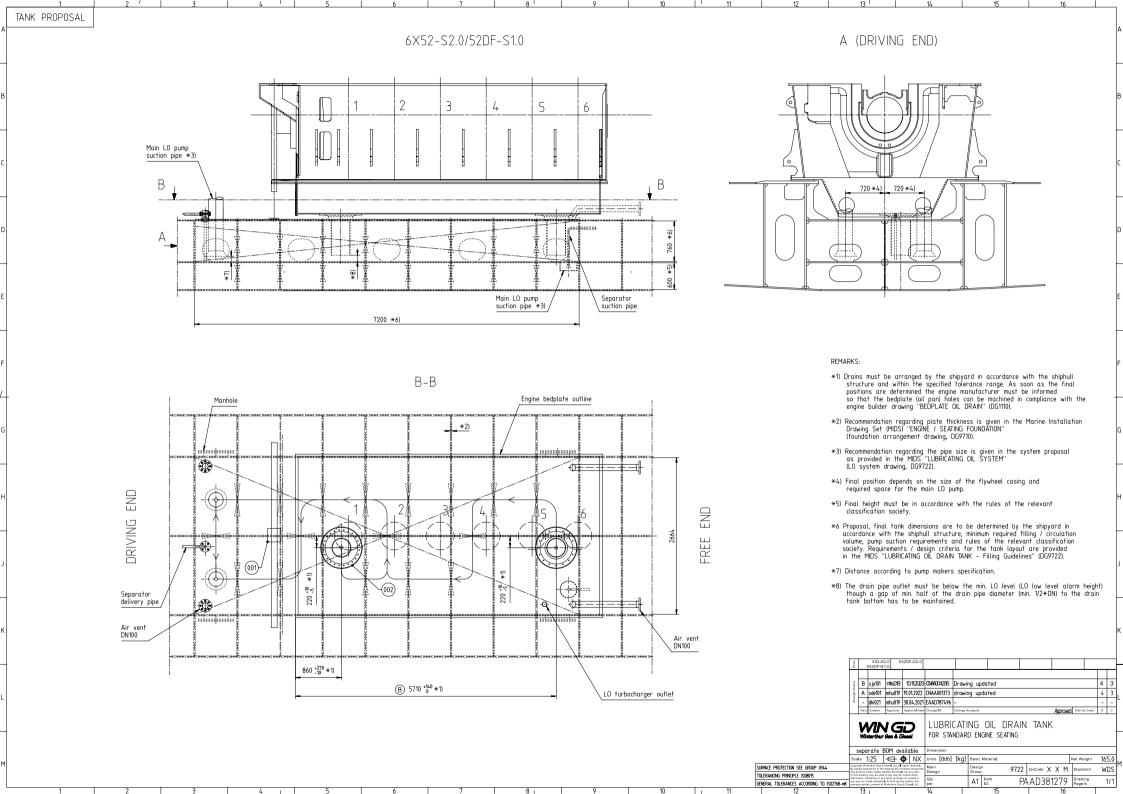


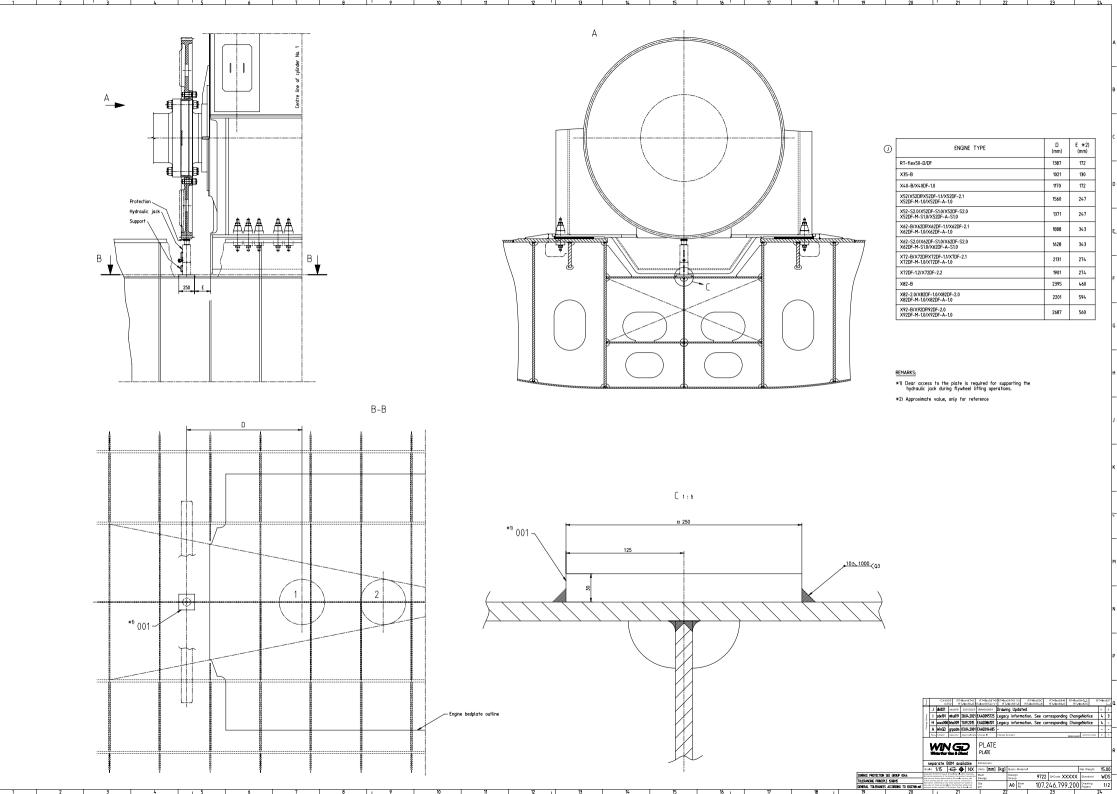


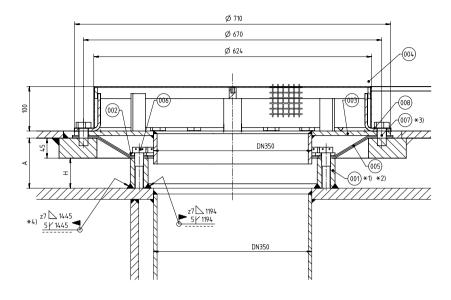
SEQ NO	QTY	Item ID		Item Name				Dimension	Standard-ID		Basic Material		V	Net Neight
001	1	107.24	6.799.200	PLATE										15
002	2	PAAD3	81278	VERTICAL OII	L DRAIN									75
Prod.		X52- X52DF-		X52DF-S2.0										
Change History	Δ	sjo101	ntru019	10.11.2023	<b>ONHAOO4295</b>	Drawin	g updated	<u> </u>					4	3
Chang		npa101		05.04.2023	CNAA003511	new De	-	-					-	_
	Rev.	Creator	Approver	Approval Date	Change ID	Change S	ynopsis			,	Approved	Activity Code	Е	-
					Ī									- C
Convr	Wii	Bill <b>C</b>	r Gas & Of <b>M</b> ateria	al	Dimension	NDAR	D ENG	SINE SEAT		N T	ANK	Incore :		С
By ta recogr	Winght Wing phizes ar	Bill Conterthur Gasossession d honours t	of Materia  S & Diesel Ltc of the docu hese rights. N	Diesel	FOR STAN			GINE SEAT				Net Weight Standard		

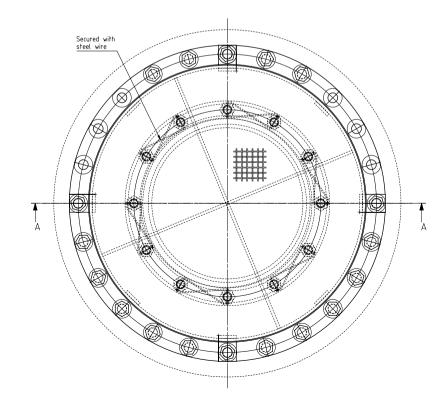


,	QTY	Item ID		Item Name			Dimension	Standard-ID	Basic Material		V	Net Neight
001	1	107.24	6.799.200	PLATE								15
002	2	PAAD3	381278	VERTICAL OI	L DRAIN							75
l												
1												
Prod.		X52- X52DF-		X52DF-S2.0								
Prod.		X52- X52DF-		X52DF-S2.0								
	В				ONAX004295	Drawing update	d				4	3
	Α	x52DF- sjo101 sde101	s1.0 nhL019 mhu019	<b>10.11.2023</b> 19.01.2022	CNAA001373	Drawing updated					4 4	3 3
Change History Prod.	A -	sjo101 sde101 dki021	nthu019 mhu019 mhu019	10.11.2023 19.01.2022 30.04.2021	CNAA001373 EAAD787496	drawing updated			Amoed	Activity Code	4	3
	A -	x52DF- sjo101 sde101	s1.0 nhL019 mhu019	<b>10.11.2023</b> 19.01.2022	CNAA001373 EAAD787496 Change ID	drawing updated - Change Synopsis	1		Aproæd	Activity Code	4	3
	A - Rev.	sjo101 sde101 dki021 Creator	nthL019 mhu019 mhu019 Approver	10.11.2023 19.01.2022 30.04.2021 Approval Date	CNAA001373 EAAD787496 Change ID	drawing updated - Change Synopsis	1	DRAIN 1		Activity Code	4	3
	A - Rev.	sjo101 sde101 dki021 Creator	nthL019 mhu019 mhu019 Approver	10.11.2023 19.01.2022 30.04.2021 Approval Date	CNAA001373 EAAD787496 Change ID LUBR	drawing updated - Change Synopsis	G OIL	DRAIN 1		Activity Code	4	3
	A - Rev.	sjo101 sde101 dki021 Creator	mhu019 Approver	10.11.2023 19.01.2022 30.04.2021 Approval Date  Diesel	CNAA001373 EAAD787496 Change ID LUBR	drawing updated - Change Synopsis	G OIL	DRAIN 1		Activity Code	4	3
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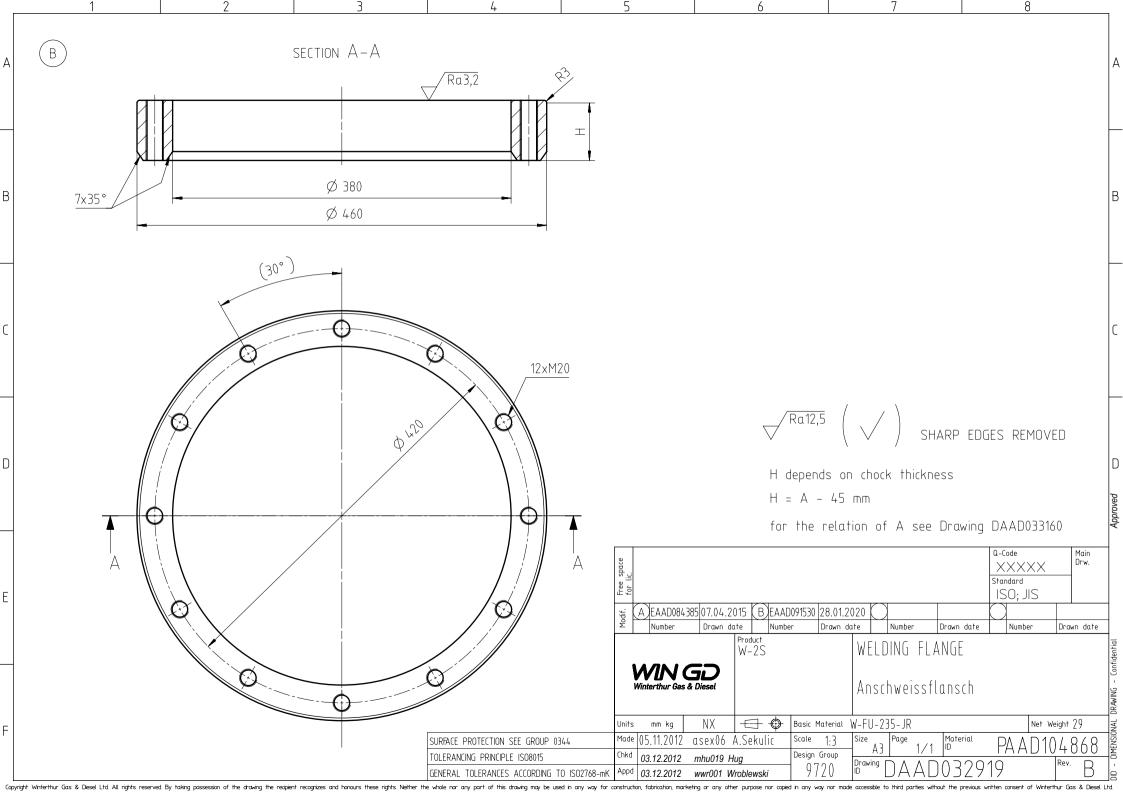


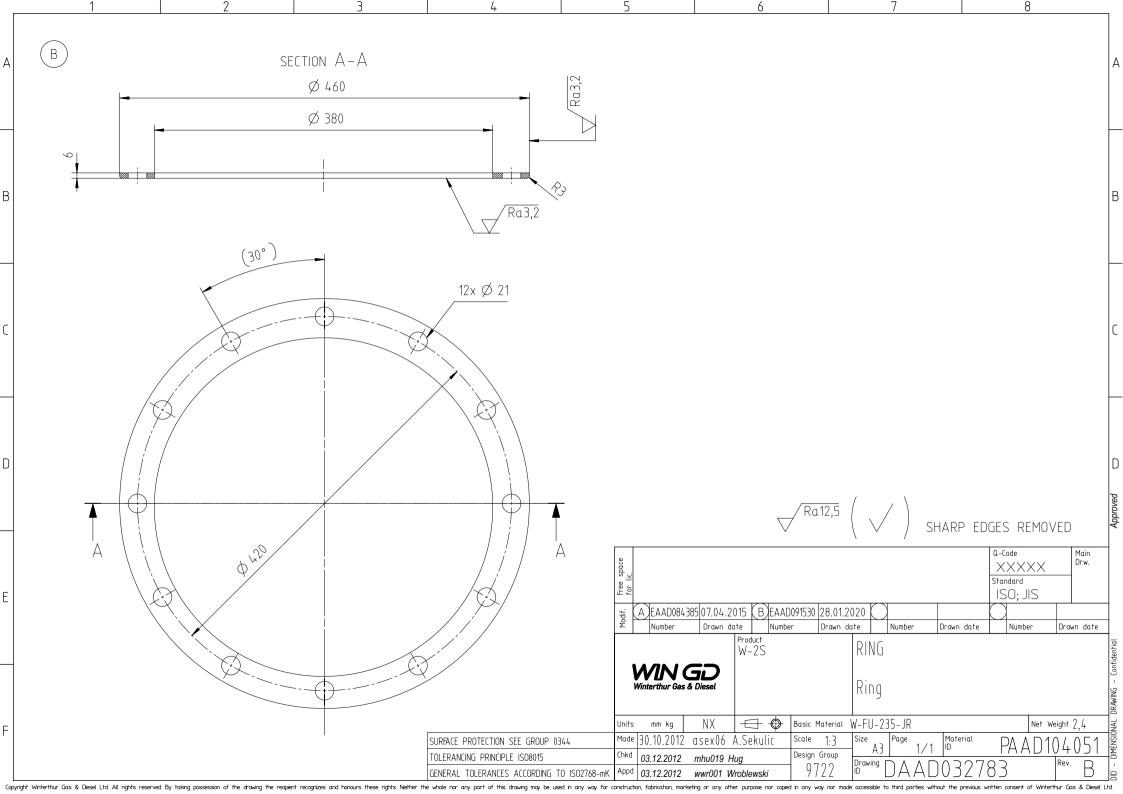
## REMARKS:

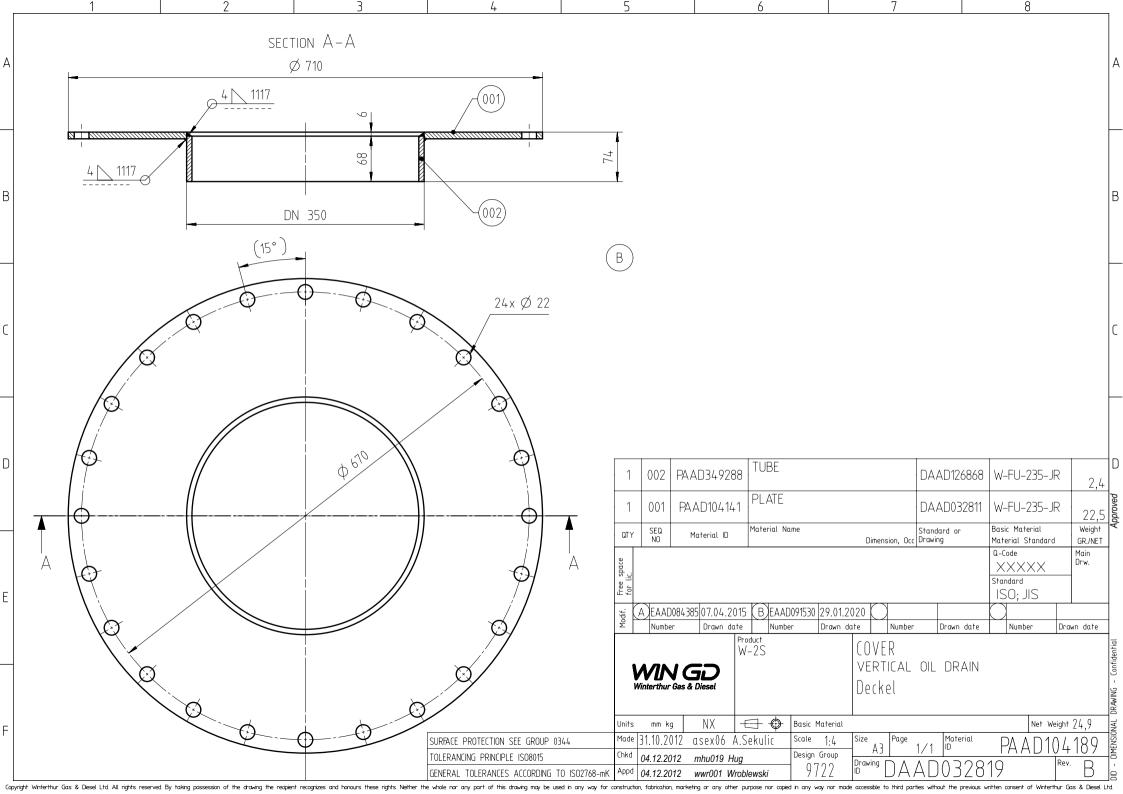
- \*1) To be aligned after engine is in final position.
- \*2) Pos. 001, 002, 005 and 006 to be pre-assembled prior to alignment. After alignment the Pos. 001 (flange) can be welded in place.
- \*3) Driven in oil tight with jointing compound.
- \*4) No specific quality level required. Oil tight is fundamental.

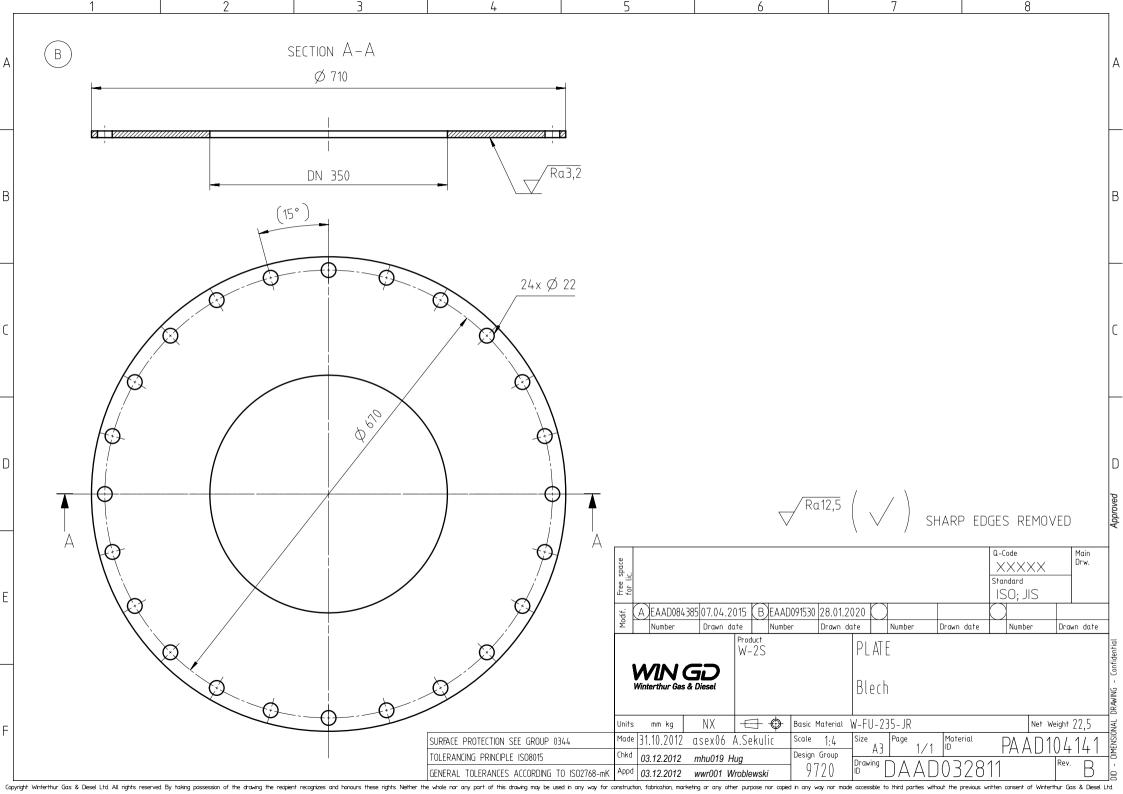
А	To be measured after alignment of the engine
Н	A - 45 mm

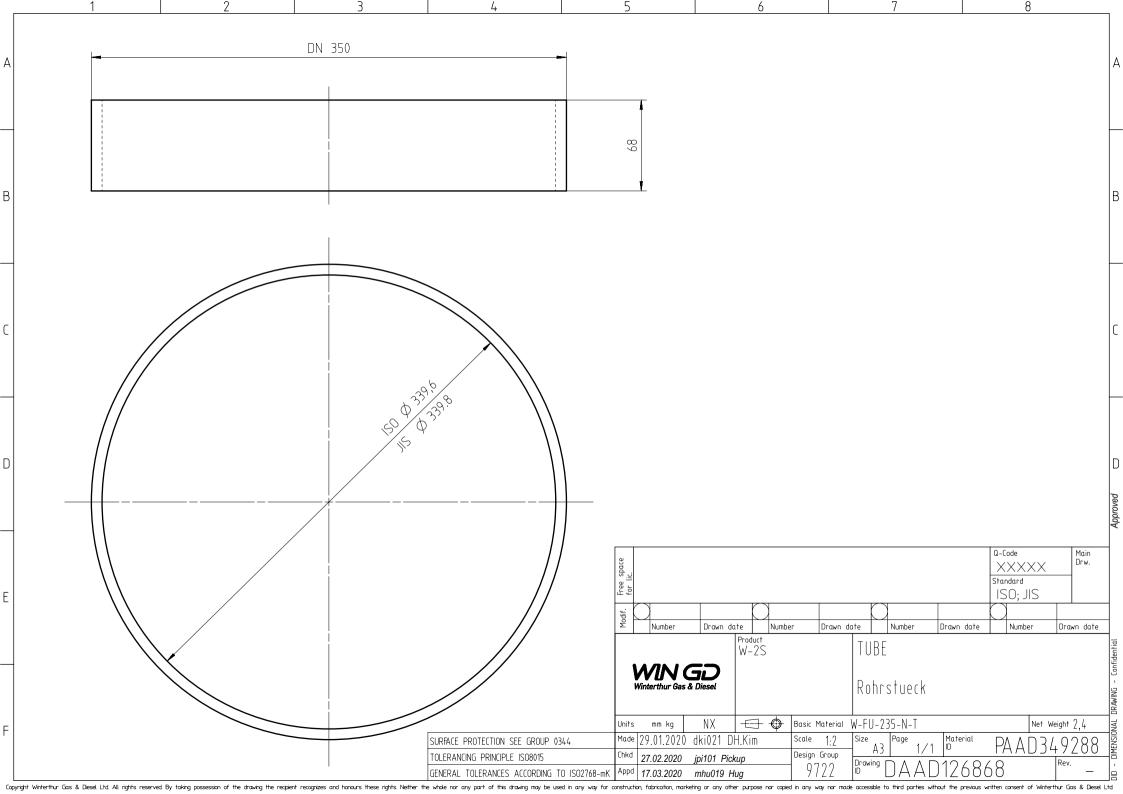
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		24	007	015	.151.044.2	261	HEXAGO	ON HE	AD			×40	ISO	4017	8.8			0,155	
		12	006	015	.151.374.2	201	HEXAGO	ON HE	AD			)x30			8.8		1	0,12	J
		2	005	PA	AD10419	9	RUBBER	GAS	KET				DAA	D032827	NBR	Perbun	an	1,5	
		1	004	PA	AD38127	4	OIL STA	RAINEF	1				DAA	D143410				8,3	Г
		1	003	PA	AD10418	9	COVER						DAA	D032819				24,9	
		1	002	PA	AD10409	51	RING						DAA	D032783	W-Fl	J-235-JF	R	2,4	K
		1	001	PA	AD10486	8	WELDIN	G FLA	NGE				DAA	D032919	W-FL	J-235-JF	R	29,0	ремохда
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	SURFACE PROTECTION SEE GROUP 0344	Made Chkd	30.04.2			H.K		Scale Design G	1:3	Size	A1	Page 1	/1	Material ID	PA	AD3	812	278	MENSI
	TOLERANCING PRINCIPLE ISO8015 GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	30.04.20	_	jpi101 Pici mhu019 H			977		Drawi ID	ng	ΙΔΖ	<u> </u>	14.34	15		Rev.		0 - 010
m	TO THIS drawing may be used in any way for construction, fabr						opied in any wa				ird pa	ties witho	w me	previous written	consent o	f Winterthur	Gas &		Ħ

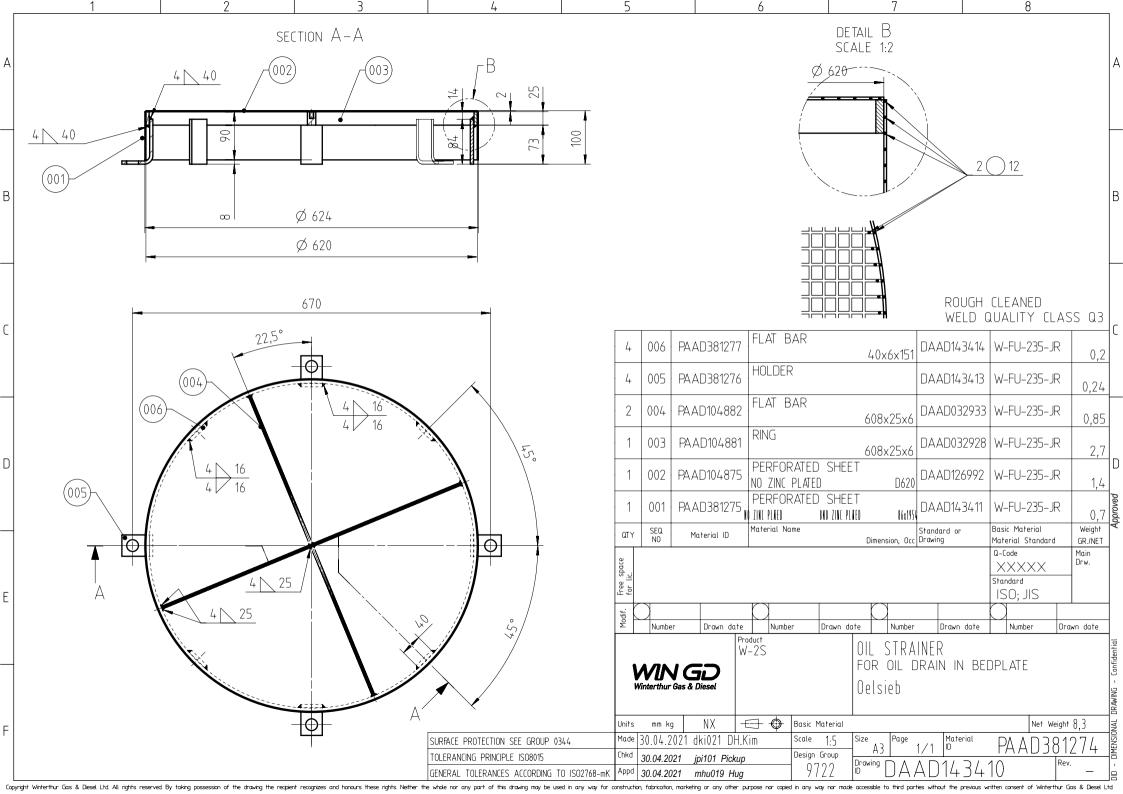


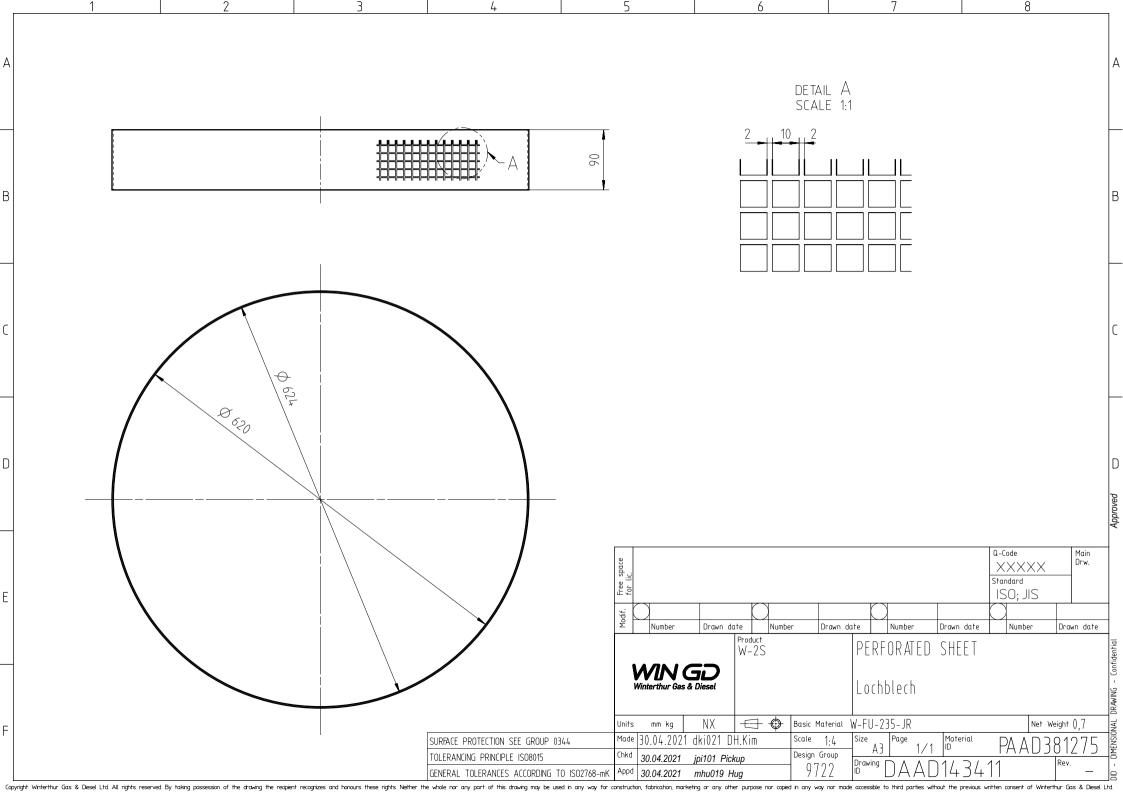


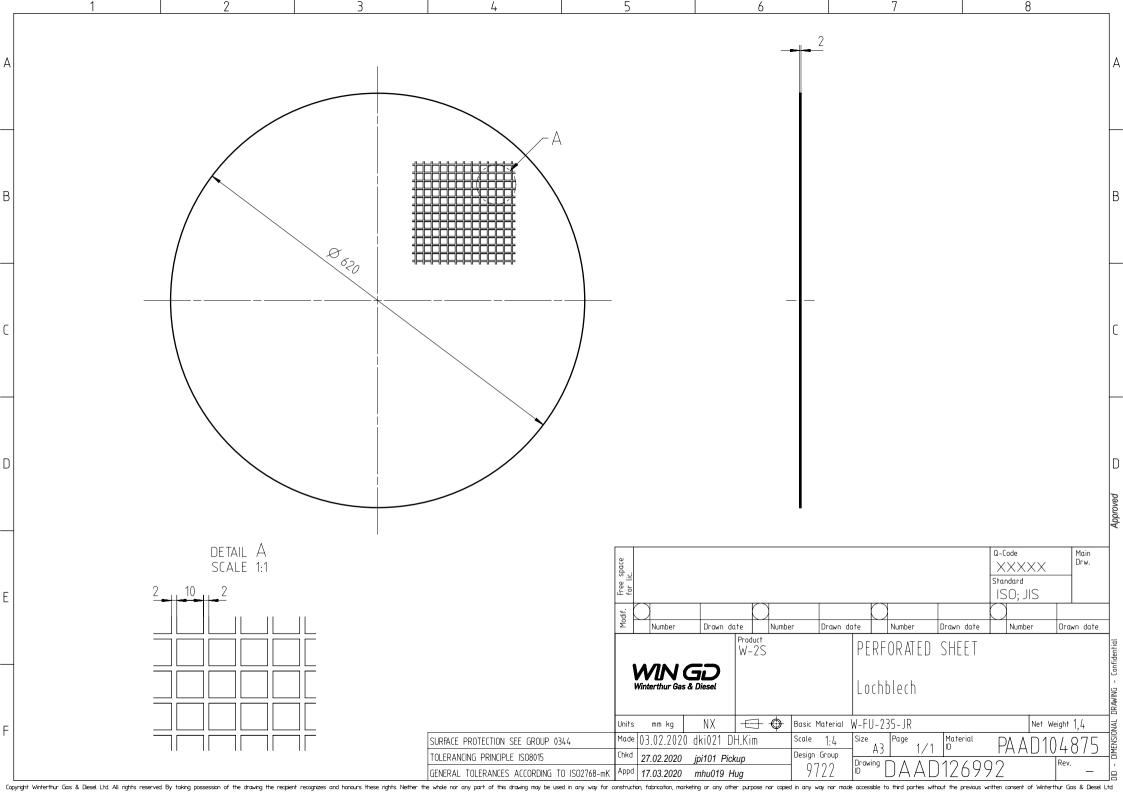


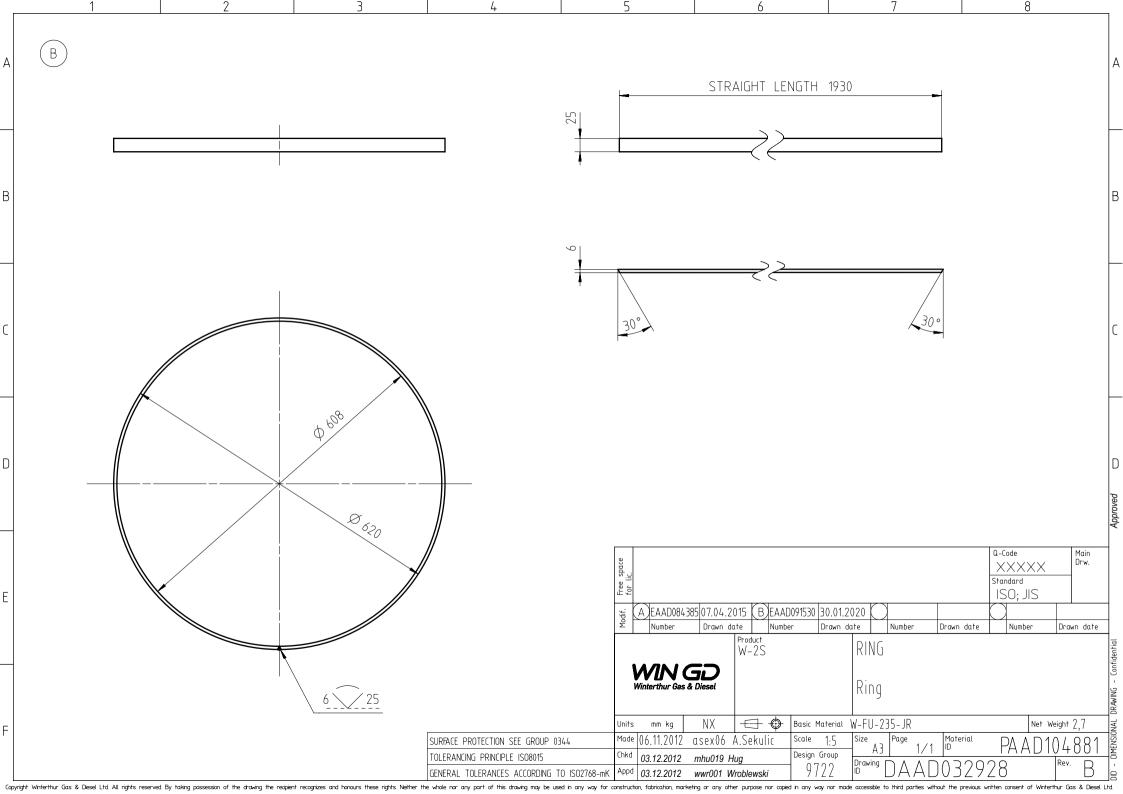


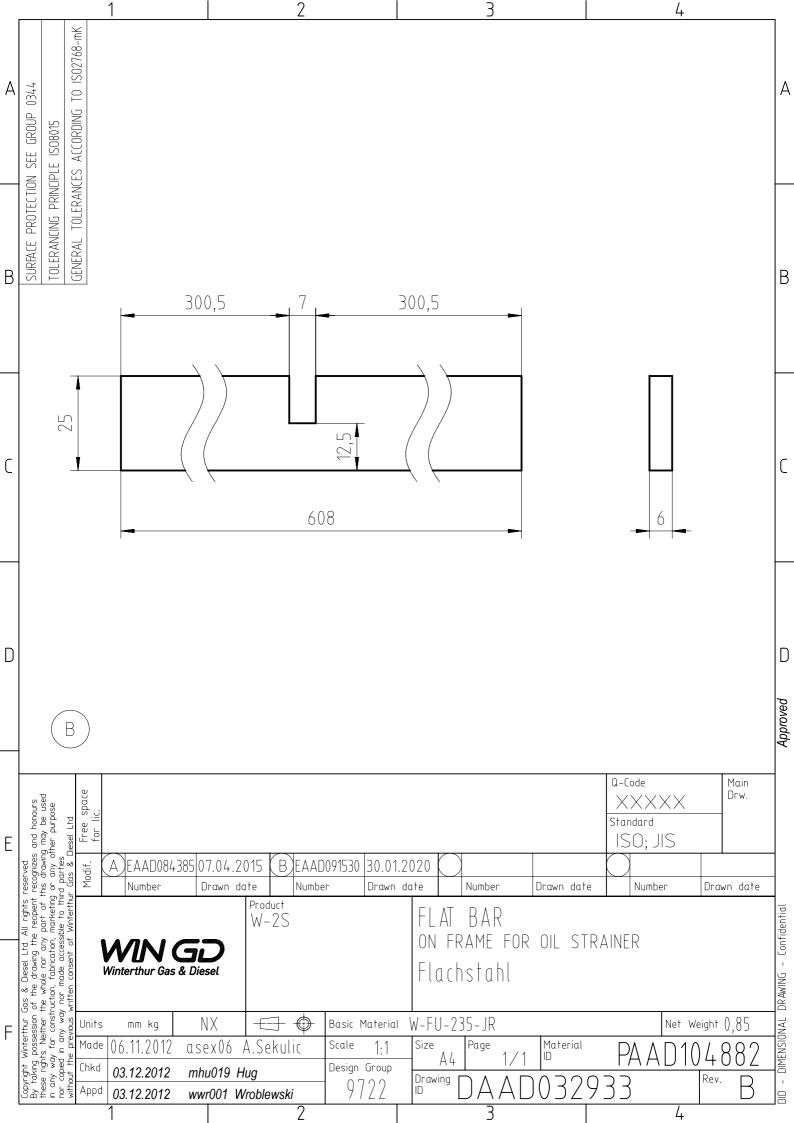


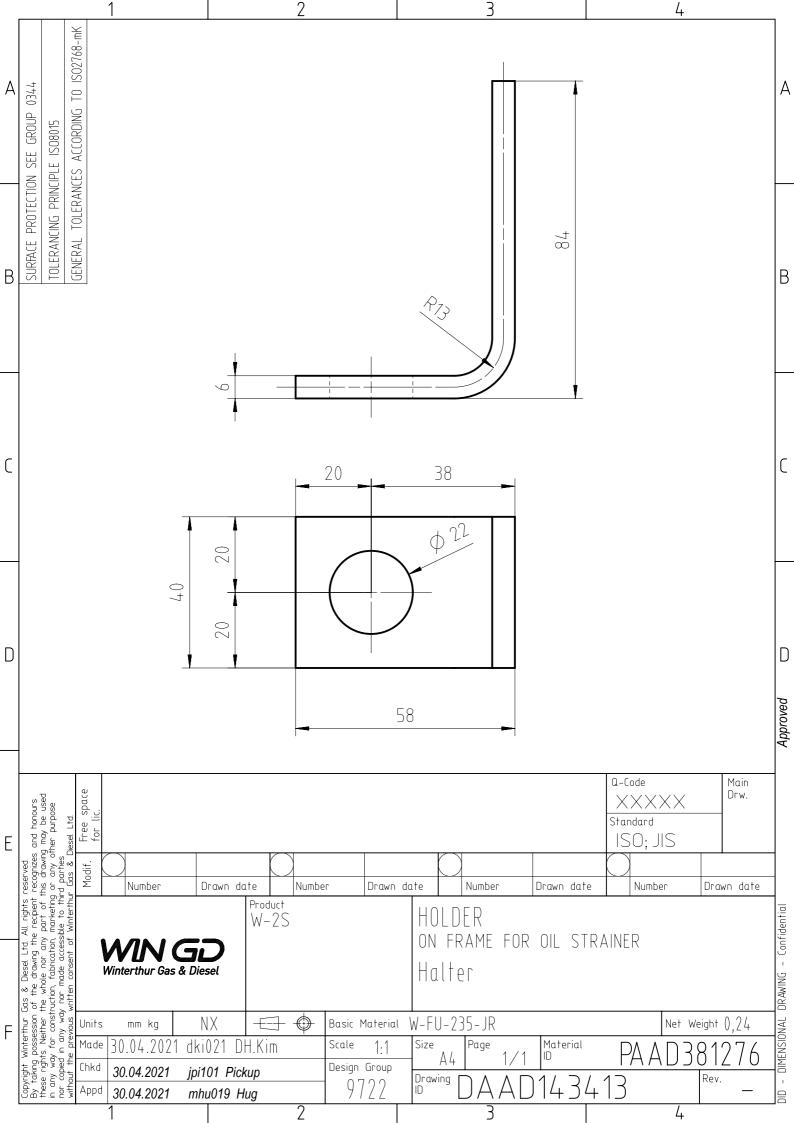


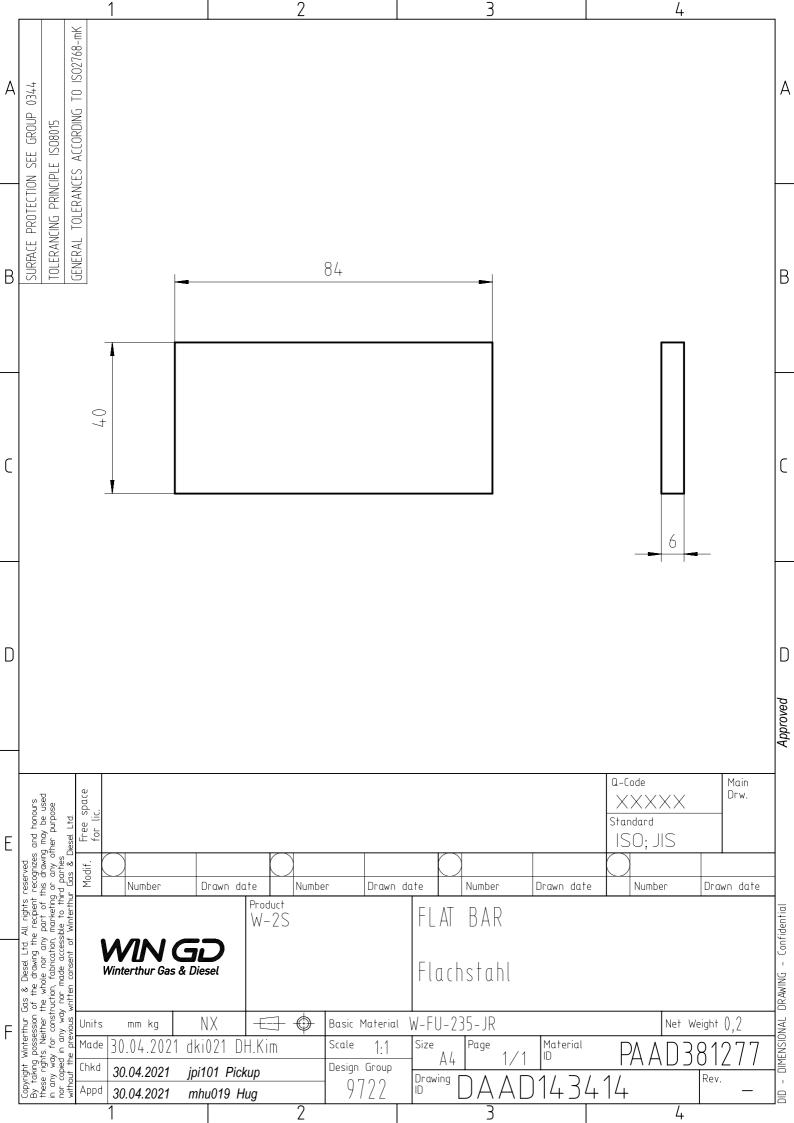


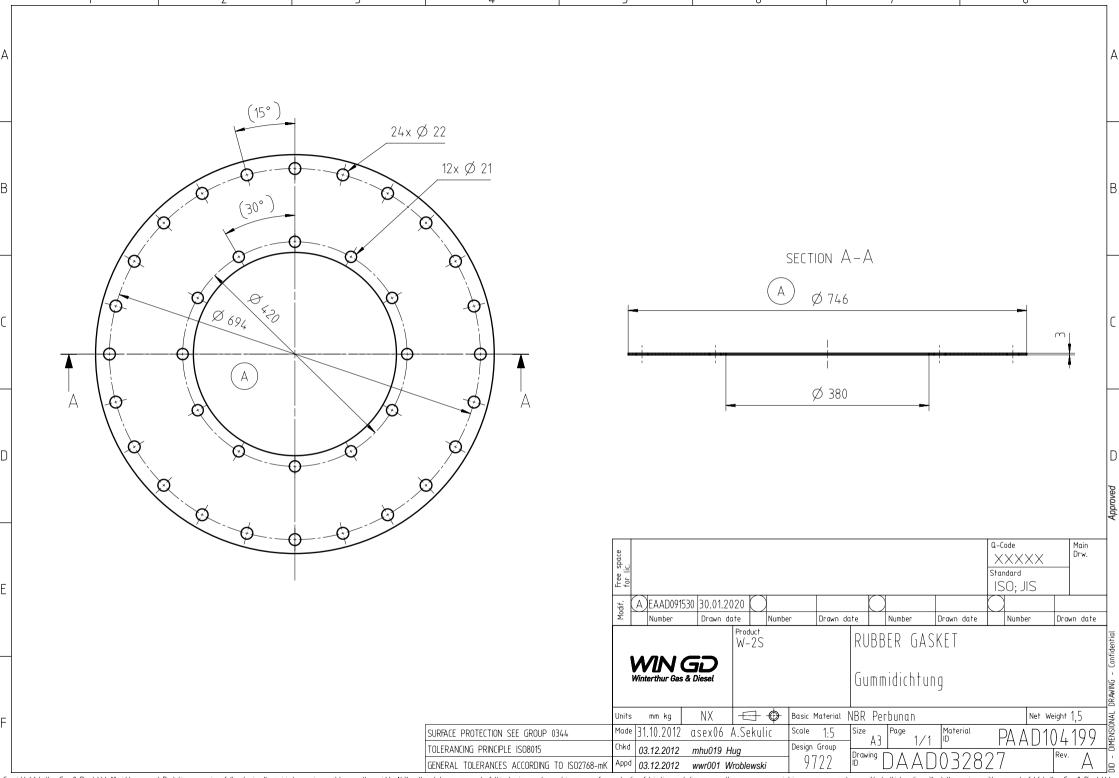




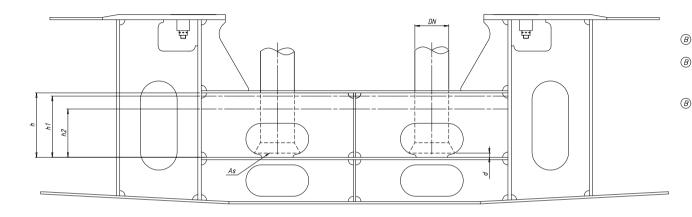




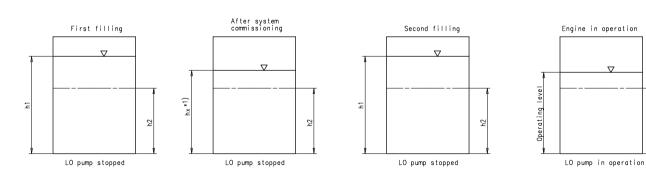




## 



### LO DRAIN TANK - FILLING PROCESS



# Specifications that need to be met:

Dimensioning guidelines and capacities for tank design

		No. of cylinders		4	5	6	7	8
١ ١	L	Recommended total tank height	(mm)	acco	ording to in	nstallation	requiremen	ts
1	h	Recommended total tank volume: 105% *4)	(m3)	10	12	13	15	17
7	h1	Recommended filling level	(mm)	acco	ording to in	stallation	requiremen	ts
	n i	Recommended volume: 100% *4)	(m3)	9	11	13	14	16
	h2	Low-level alarm	(mm)				2)	
	ΠZ	Volume	(m3)			*.	2)	
)	٧r	Min. retention volume *5)	(m3)	6	7	8	9	10
	d	Distance between suction pipe and bottom of tank	(mm)			*.	3)	
	As	Suction area			min.	1.5 x sucti	on pipe are	ea (DN)

#### REMARKS:

h2

- \*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 part 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.

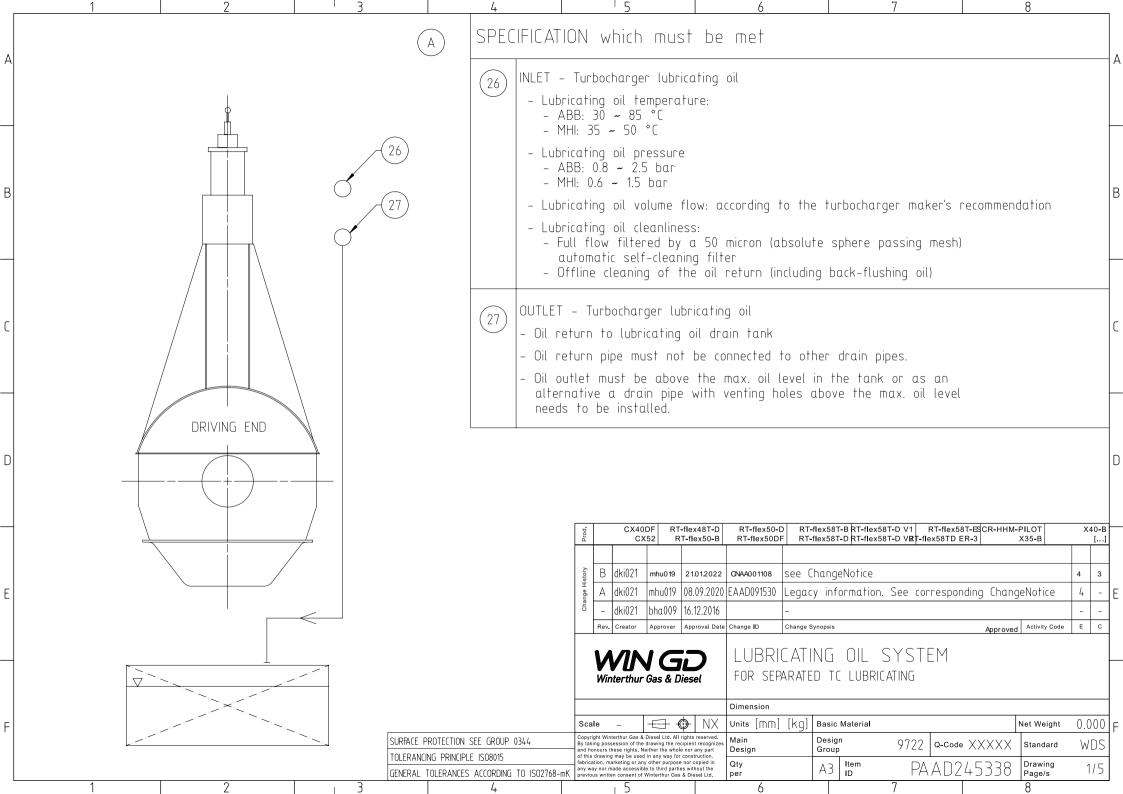
Minimum inclination angles comply with the rules of classification societies:

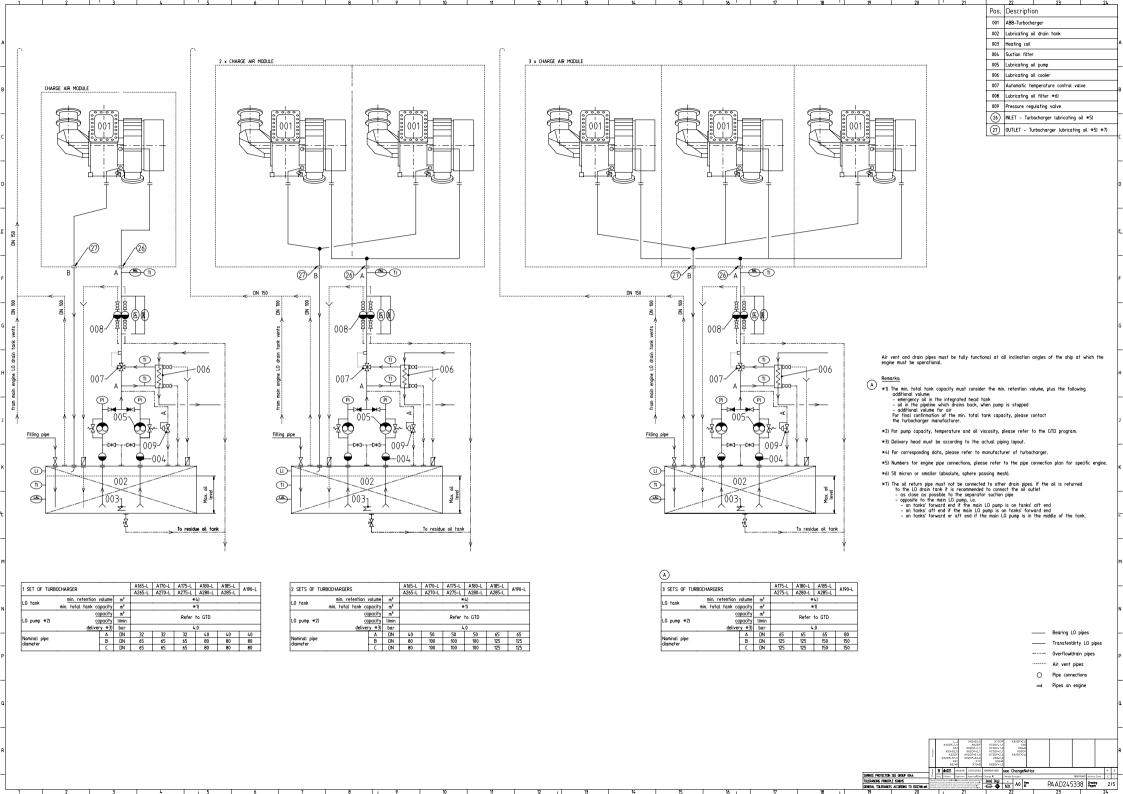


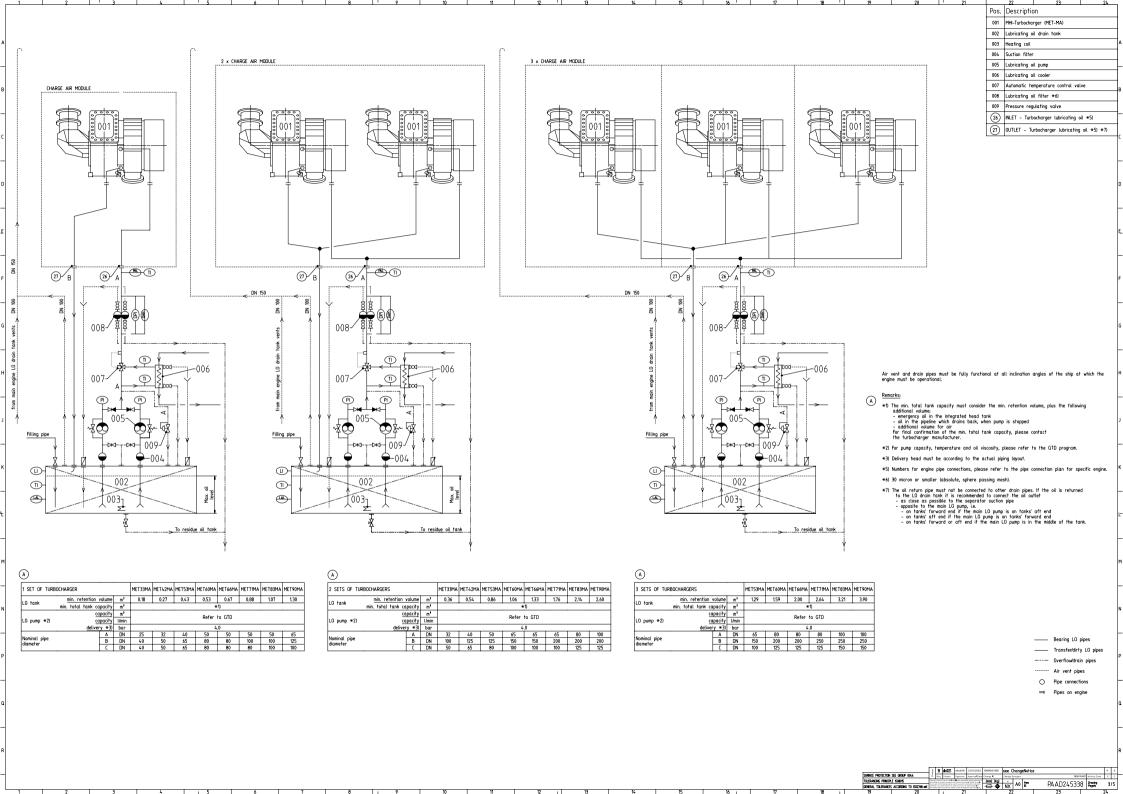
Additionally this level has to be above or equal to the minimum retention volume (Vr) for M/E operation.

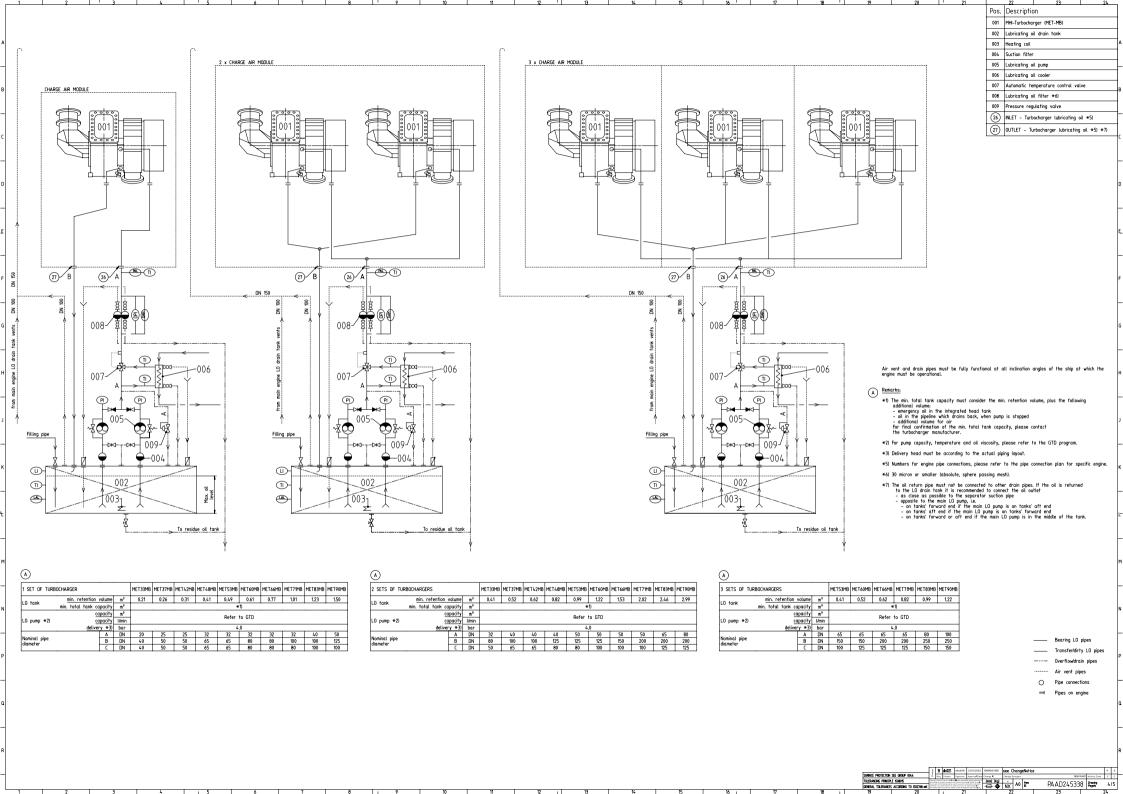
- \*3) Distance (d) between suction pipe inlet of main LO pumps and LO drain tank bottom has to be in accordance with the requirements of the pump manufacturer. As guideline the following formula can be applied: d = DN/4 + 40, d = min. 80 mm.
- (B) \*4) The stated tank volume represent the min. requirement.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

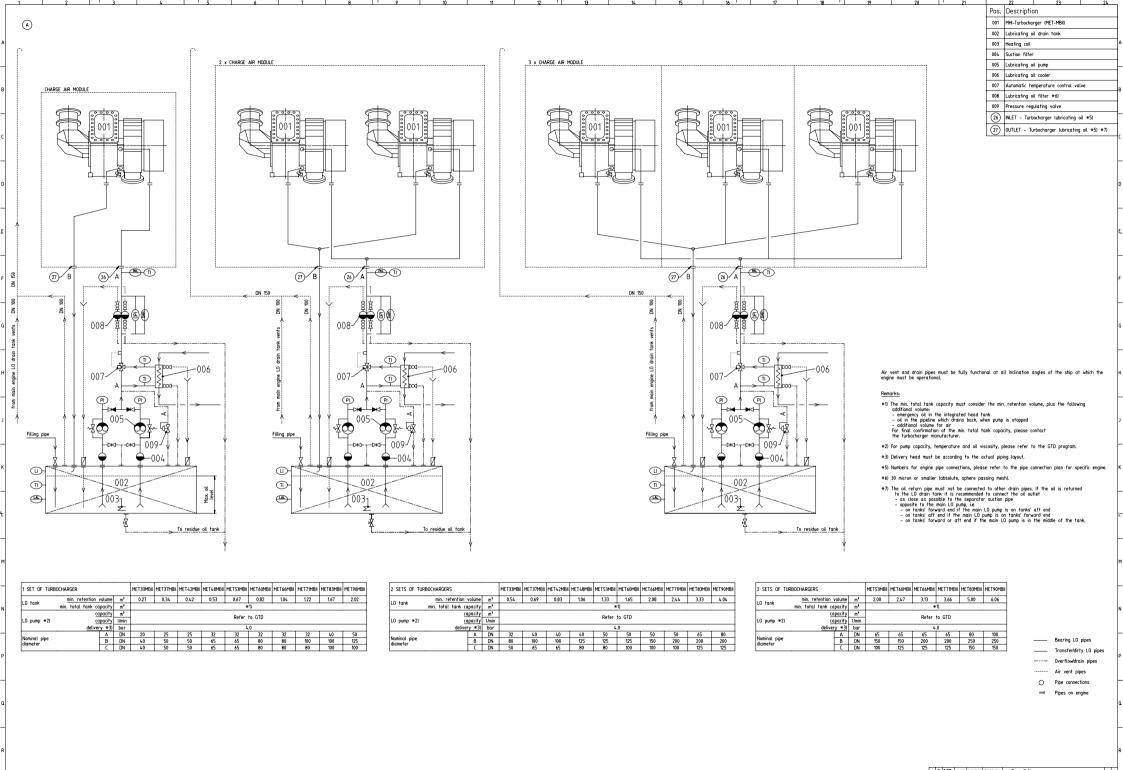








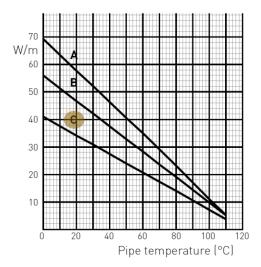




| SEARCH PROFECTION DISCORPER CAN | B | B | MORT | MORE |

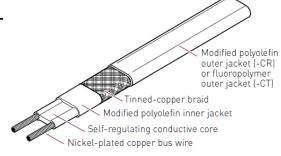
### **Self-Regulating Heating Cable** 10QTVR2-CT

Order drawing



Heating cable construction

C 10QTVR2-CT



Specification:

way nor made

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

N PENTAIR Height: 4.5 mm Supplier:

Width: 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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# MIDS - WinGD X52-S2.0 - Lubricating Oil System (DG9722)

## **TRACK CHANGES**

DATE	SUBJECT	DESCRIPTION					
2021-05-10	DRAWING SET	First web upload					
2022-07-13	PAAD381280	System drg. – new revision					
2023-04-06	PTAA058056 PTAA058059	New execution for 5cyl. added					
2023-07-14	PAAD381280B	new execution					
2023-11-15	PAAD381279B PTAA058055A	New execution					

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