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	TION	INCIP.		002	PA	AD249872	6			X		X			
	PROTECTION	IG PR		003	PA	AD249870	6		X		X				
	(E PF	ANCIN		004	PA	AD249871	6			X		X			
В	Surface	FOLER		005	PA	AD249883	7			X		X			В
	07			006	PA	AD249881	7		X		X				٦
				007	PA	AD249878	7			X	X				
				800	PA	AD249882	7		X			X			
				009	PA	AD249899	8			X		X			
				010		AD249901	8		X			X			
				011	PA	AD249898	8		X		X				
ر				012	PA	AD249896	8			X	X				c
١				013	PA	AD250027	9			X	X				۲
				014	PA	AD250028	9		X		X				
				015	PA	AD250030	9		X			X			
				016	PA	AD250029	9			X		X			
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F	By tal	ight Wii	session o	isas & Diesel Ltd. All rig	ient recognize	Units [MM]	[Kg]	Design		9722 Q- Co	ode XXXX	Net Weight Standard		001 DS	F
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NO	QTY	Item ID					Dimension	Standard-ID	Basic Material		V	Net Veight
1	1	107.39	98.114.500	LUBRICATING	G OIL SYSTEM						(0.001
3	1	PAAD	245338	LUBRICATING	G OIL SYSTEM						(0.001
4	1	107.43	32.793.200	LUBRICATING	OIL DRAIN TANK							183
5	1	107.34	41.455.500	INSTRUCTION	N FOR FLUSHING						(0.001
6	1	107.40	00.395.500	LUBRICATING	G OIL DRAIN TANK						(0.001
Prod.			6 X82-B									
			6 X82-B									
			6 X82-B									
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Change History Prod.	Rev.	Creator VII nterthe	mhu019 Approver	09.02.2017 Approval Date Diesel	Change ID	Change Synopsis		oonding ChangeNotice		Activity Code	1	
Change History	Rev.	Creator Creator Dill Creator Bill Creator	mhu019 Approver Approver Of Materia & Diesel Ltd.	09.02.2017 Approval Date Diesel Al All rights reserved.	Change ID LUBRI Dimension	Change Synopsis	IG OIL			Activity Code Net Weight	E	
Change History	Rev.	Creator Creator Creator Mill (Interthur Ga Dossession and honours	mhu019 Approver Of Materia & Diesel Ltd of the docu these rights. N	09.02.2017 Approval Date Diesel al	Change ID LUBRI Dimension	Change Synopsis	IG OIL		1		E	С

SEQ NO	QTY	Y Item ID		Item Name			Dimension	Standard-ID	Basic Material		V	Net Veight
2	1	PAAD	207844	LUBRICATING	G OIL SYSTEM						C).001
4	1	107.43	32.793.200	LUBRICATING	G OIL DRAIN TANK	(183
5	1	107.34	41.455.500	INSTRUCTIO	N FOR FLUSHING						C).001
6	1	107.40	00.395.500	LUBRICATING	G OIL DRAIN TANK	(C).001
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·			6 X82-B									
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Change History	-	dki021		09.02.2017	EAAD087222	Legacy informa	tion. See corresp	onding ChangeNotice			4	
	- Rev.	dki021 Creator			EAAD087222 Change ID	Legacy informa Change Synopsis	tion. See corresp	onding ChangeNotice		Activity Code	4 E	- C
	V	Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synopsis		onding ChangeNotice		Activity Code	-	
	V	Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synopsis				Activity Code	-	
Change History	V Wi	Creator Creator Interthology Bill (mhu019 Approver Approver Gas &	09.02.2017 Approval Date Diesel al	Change ID LUBR Dimension	Change Synopsis	IG OIL			-	E	С
Change History	Winght Winglishing	Creator Interthul Bill (interthur Ga possession	mhu019 Approver Approver Of Materias & Diesel Ltt. of the docu	09.02.2017 Approval Date Diesel A. All rights reserved. ment the recipient	Change ID LUBR Dimension Units	Change Synopsis ICATIN [m] [kg] Basic Ma	IG OIL	SYSTEM	1	Net Weight	E	c 167
Copyright Copyri	Wind Wind Wind Wind Wind Wind Wind Wind	Creator Creator Creator Creator Creator Bill (Cinterthur Gapossession and honours this docum fabrication,	mhu019 Approver Of Materias & Diesel Ltd of the docuthese rights. Nent may be u marketing or a	09.02.2017 Approval Date Diesel Al All rights reserved.	Change ID LUBR Dimension Units Main Design	Change Synopsis	IG OIL		XXXXX	Net Weight	E	С

NO	QTY	Y Item II)	Item Name			Dimension	Standard-ID	Basic Material		V	Net Veight
1	1	107.3	98.114.500	LUBRICATING	G OIL SYSTEM							0.001
4	1	107.4	32.793.200	LUBRICATING	G OIL DRAIN TANK	(183
5	1	107.3	341.455.500	INSTRUCTION	N FOR FLUSHING						(0.001
6	1	107.4	00.395.500	LUBRICATING	G OIL DRAIN TANK	((0.001
Prod.			6 X82-E									
Prod.			6 X82-E									
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Change History Prod.		dki021			EAAD087222	Legacy inform	ation. See corresi	ponding ChangeNotice			4	-
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		Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synopsis				Activity Code		
	V	Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synopsis		oonding ChangeNotice		Activity Code		
	V	Creator	mhu019 Approver Ur Gas &	09.02.2017 Approval Date Diesel	Change ID	Change Synopsis				Activity Code		
Change History	Wi	Creator Creator Minterth Bill interthur G	mhu019 Approver Of Materias & Diesel Ltr	09.02.2017 Approval Date Diesel Al All rights reserved.	Change ID LUBR Dimension	Change Synopsis	NG OIL			Activity Code Net Weight	E	
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NO	QTY	Item ID					Dime	ension Standard-ID	Basic Material		V	Veight
2	1	PAAD	207844	LUBRICATING	G OIL SYSTEM						(0.001
3	1	PAAD	245338	LUBRICATING	G OIL SYSTEM						(0.001
4	1	107.43	32.793.200	LUBRICATING	G OIL DRAIN TANK	(183
5	1	107.34	41.455.500	INSTRUCTION	N FOR FLUSHING						(0.001
6	1	107.40	00.395.500	LUBRICATING	G OIL DRAIN TANK	((0.001
Prod.			6 X82-B									
			6 X82-B									
			6 X82-B									
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		dki021 Creator			EAAD087222 Change ID	Legacy infol		rresponding ChangeN	lotice	Activity Code	-	- C
Change History Prod.	Rev.	Creator VII nterthu	mhu019 Approver	09.02.2017 Approval Date Diesel	Change ID	Change Synopsi	3	rresponding ChangeN		Activity Code	-	
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	QTY	Y Item ID)	Item Name			Dimension	Standard-ID	Basic Material		V	Net Veight
2	1	PAAC)207844	LUBRICATING	OIL SYSTEM						C	0.001
4	1	107.3	98.517.200	LUBRICATING	OIL DRAIN TANK	(266
5	1	107.3	41.455.500	INSTRUCTION	N FOR FLUSHING						C	0.001
6	1		.00.395.500	LUBRICATING	G OIL DRAIN TANK	(0.001
	'	107.4										3.001
Prod.			7 X82-B									
Prod.			7 X82-B									
			7 X82-B									
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	- Rev.	dki021 Creator		09.02.2017 Approval Date	EAAD087222 Change ID	Legacy informa Change Synopsis	ation. See corres	ponding ChangeNotice		Activity Code	4 E	- C
		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		oonding ChangeNotice		Activity Code		
	V	Creator VII interth	mhu019 Approver	09.02.2017 Approval Date Diesel	Change ID	Change Synopsis				Activity Code		
Change History	Wij	Creator Creator Millinterthur G possession	mhu019 Approver Ur Gas & Of Materi as & 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	IG OIL	SYSTEM	1	Net Weight	E	c 251
Change History	Wijinght Wijinghizes a	Creator Creator Creator Creator Creator Creator Creator Creator Creator	mhu019 Approver Ur Gas & Of Materias & Diesel Ltto of the docust these rights. Neptr may be used.	09.02.2017 Approval Date Diesel Al All rights reserved. ment the recipient	Change ID LUBR Dimension Units Main Design	Change Synopsis	IG OIL		1 xxxxx	Net Weight Standard	E	C

NO		Y Item ID)	Item Name			Dimension	Standard-ID	Basic Material		٧	Net Veight
1	1	107.39	98.114.500	LUBRICATING	G OIL SYSTEM							0.001
4	1	107.39	98.517.200	LUBRICATING	G OIL DRAIN TANK	(266
5	1	107.3	41.455.500	INSTRUCTION	N FOR FLUSHING						(0.001
6	1	107.40	00.395.500	LUBRICATING	G OIL DRAIN TANK	(0.001
Prod.			7 X82-B									
Prod.			7 X82-B									
			7 X82-B									
Change History Prod.		dki021			EAAD087222	Legacy informa	ation. See corresp	oonding ChangeNotice	3		4	
	- Rev.	dki021 Creator		09.02.2017 Approval Date	EAAD087222 Change ID	Legacy informa Change Synopsis	ation. See corresp	ponding ChangeNotice)	Activity Code	4 E	- C
		Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synopsis				Activity Code		
	V	Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synopsis		oonding ChangeNotice		Activity Code		
	V	Creator Creator	mhu019 Approver	09.02.2017 Approval Date Diesel	Change ID	Change Synopsis				Activity Code		
Change History	Winght Winking	Creator Interthological Control Contr	mhu019 Approver Of Materias & Diesel Ltt of the docu	09.02.2017 Approval Date Diesel All rights reserved. ment the recipient	Change ID LUBR Dimension Units	Change Synopsis	IG OIL		1	Net Weight	E	
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NO 1		/ Item ID)	Item Name			Dimension	Standard-ID	Basic Material		14	Net
- 1	1	107.3	98.114.500	LUBRICATING	G OIL SYSTEM		Dimension					Veight 0.001
	ļ	107.3	90.114.500	LUDDICATING	G OIL SYSTEM						-).001
3	1	PAAD)245338	LUBRICATING	OIL SYSTEM						0	0.001
4	1	107.3	98.517.200	LUBRICATING	G OIL DRAIN TANK							266
5	1	107.3	41.455.500	INSTRUCTION	N FOR FLUSHING						0).001
6	1	107.4	00.395.500	LUBRICATING	GOIL DRAIN TANK						0).001
Prod.			7 X82-B	3								
Prod.			7 X82-B									
			7 X82-B									
		المنابع			EAAD007000							
		dki021	mhu019	09.02.2017	EAAD087222 Change ID		ation. See corresp	oonding ChangeNotice	·	Activity Code	4 E	- C
	Rev.	Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synopsis		oonding ChangeNotice		Activity Code	4 E	
Change History	Rev.	Creator VIII nterth Bill	mhu019 Approver Cur Gas &	09.02.2017 Approval Date	Change ID LUBR Dimension	Change Synopsis	IG OIL				E	C
Change History ta	Rev.	Creator Creator Mill Bill Interthur G possession	mhu019 Approver Of Materias & Diesel Ltr of the docu	09.02.2017 Approval Date Diesel Al All rights reserved.	Change ID LUBR Dimension Units	Change Synopsis CATIN [m] [kg] Basic Ma	IG OIL	SYSTEM	1	Net Weight	E	c 251
Change History of the coordinate of the coordina	ght Winking paizes are art of fuction,	Creator Number of the control of th	mhu019 Approver Of Materias & Diesel Ltd of the docuthese rights. Neither may be umarketing or a	09.02.2017 Approval Date Diesel Al All rights reserved.	Change ID LUBR Dimension Units Main Design	Change Synopsis	IG OIL		1 XXXXX	Net Weight	E	25 /D:

2		Y Item	n ID	Item Name			Dimension	Standard-ID	Basic Material		V	Net Neight
	1	PA	AD207844	LUBRICATING	OIL SYSTEM							0.001
3	1	PA	AD245338	LUBRICATING	G OIL SYSTEM						(0.001
				LUBRICATING	G OIL DRAIN TANK	(
4	1		7.398.517.200	INSTRUCTION	N FOR FLUSHING							266
5	1	107	7.341.455.500			,					(0.001
6	1	107	7.400.395.500	LUBRICATING	G OIL DRAIN TANK	((0.001
Prod.			7 X82-E	3								
Prod.			7 X82-E									
			7 X82-E									
					FAAD007000							
	- Rev	dki02	11 mhu019	09.02.2017	EAAD087222		nation. See corresp	ponding ChangeNotice		Activity Code	4	
	- Rev.	dki02	11 mhu019		EAAD087222 Change ID	Legacy inform Change Synopsis	nation. See corresp	ponding ChangeNotice)	Activity Code	4 E	- C
		Creator	mhu019 r Approver	09.02.2017 Approval Date	Change ID	Change Synopsis		oonding ChangeNotice		Activity Code		
	V	Creator	11 mhu019	09.02.2017 Approval Date	Change ID	Change Synopsis				Activity Code		
	V	Creator	n Approver Approver	09.02.2017 Approval Date	Change ID	Change Synopsis				Activity Code		
Change History	Win	Creator Creator Creator	mhu019 Approver Approver Approver Approver Approver Approver Approver Approver Approver	09.02.2017 Approval Date Diesel Al All rights reserved.	Change ID LUBR Dimension	Change Synopsis	NG OIL				E	C
By ta	Wind Wind Wind Wind Wind Wind Wind Wind	Creator Creator Entert Bi interthur possessi and hono	thur Gas & Diesel Ltd.	09.02.2017 Approval Date Diesel All rights reserved. Iment the recipient leither the whole nor	Change ID LUBR Dimension Units	Change Synopsis	NG OIL			Net Weight	E	
Change History	ght Wiking paizes a art of uction, in any	Creator Intert Bi interthur possessi and hono this doo fabricati of way nor	Approver Approver Approver Approver Chur Gas & Diesel Ltt Gas	09.02.2017 Approval Date Diesel Al All rights reserved.	Change ID LUBR Dimension Units Main Design	Change Synopsis CATIN [m] [kg] Basic N	NG OIL	SYSTEM	XXXXX	Net Weight	E	25 ⁻

NO	QTY	Y Item	טו	Item Name				Dimension	Standard-ID	В	asic Material		V	Net Neight
2	1	PAA	D207844	LUBRICATING	G OIL SYSTEM									0.001
3	1	PAA	D245338	LUBRICATING	G OIL SYSTEM								(0.001
				LUBRICATING	G OIL DRAIN TANK	(
4	1		D079363	INSTRUCTION	N FOR FLUSHING									0.001
5	1	107.	341.455.500			,							(0.001
6	1	107.	400.395.500	LUBRICATING	G OIL DRAIN TANK								(0.001
Prod.			8 X82-B											
Prod.			8 X82-B											
			8 X82-B											
		dkin21			ΕΔΔD087222	L egacy info	mation See	A COTTOS N	onding Change	Notice			4	
	- Rev.	dki021		09.02.2017 Approval Date	EAAD087222 Change ID	Legacy info		corresp	onding Changel	Notice		Activity Code	4 E	- C
		Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synopsi	S					Activity Code		
		Creator	mhu019	09.02.2017 Approval Date		Change Synopsi	S					Activity Code		
	V	Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synopsi	S					Activity Code		
Change History	V	Creator Creator Interth	mhu019 Approver Approver Of Materi	09.02.2017 Approval Date Diesel al	Change ID LUBR Dimension	Change Synopsi	S					Activity Code		
By ta	Wing wing wing wing wing wing wing wing w	Creator Creator Bill interthur opossession	mhu019 Approver Approver Of Materi Gas & Diesel Ltt n of the docu	09.02.2017 Approval Date Diesel Al All rights reserved.	Change ID LUBR Dimension Units	Change Synopsi	S					Net Weight	E	
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2	~	/ Item II)	Item Name				Dimension	Standard-ID	Basic Material		V	Net Veight
	1	PAAI	0207844	LUBRICATIN	IG OIL SYSTEM							(0.001
4	1	PAA	0079363	LUBRICATIN	IG OIL DRAIN TANK	,						(0.001
5	1	107.3	341.455.500	INSTRUCTIO	ON FOR FLUSHING							(0.001
6	1	107.4	00.395.500	LUBRICATIN	IG OIL DRAIN TANK	((0.001
Prod.			8 X82-E	3									
			8 X82-E	3									
			8 X82-E	3									
Change History Prod.		dki021	mhu019	09.02.2017	EAAD087222			tion. See corres	ponding ChangeNotice	e		4	-
		dki021 Creator			EAAD087222 Change ID	Legacy Change S		tion. See corresp	ponding ChangeNotice	e	Activity Code	4 E	- C
	Rev.	Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change S	ynopsis		oonding ChangeNotice		Activity Code		
	Rev.	Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change S	ynopsis				Activity Code		
Change History	Rev.	Creator	mhu019 Approver V C ur Gas &	09.02.2017 Approval Date	Change ID LUBR Dimension	Change S	ynopsis				Activity Code		
Change History	Rev.	Creator Creator Creator Millinterthur G possession	mhu019 Approver Ur Gas & Of Materias & Diesel Ltrof the docu	09.02.2017 Approval Date Control Diesel All rights reserved ment the recipien	Change ID LUBR Dimension Units	Change S ICA [m] [kg]	TIN Basic Mat	IG OIL	SYSTEM	1	Net Weight	E 0.	C 001
Change History	Rev.	Creator Creator Creator Creator Creator Creator Creator Creator	mhu019 Approver Of Materias & Diesel Ltrof the docus these rights. Note that may be used.	09.02.2017 Approval Date C Diesel d. All rights reserved	Change ID LUBR Dimension Units Main Design	Change S ICA [m] [kg]	Proposis TIN Basic Mat Design G	IG OIL		1	Net Weight	0. W	C

NO	QTY	Y Item ID)	Item Name			Dimension	Standard-ID	Basic Material		V	Net Weight
1	1	107.3	98.114.500	LUBRICATING	G OIL SYSTEM						(0.001
4	1	PAAD	079363	LUBRICATING	G OIL DRAIN TANK	((0.001
5	1	107.3	41.455.500	INSTRUCTION	N FOR FLUSHING						(0.001
6	1		00.395.500	LUBRICATING	G OIL DRAIN TANK	(0.001
	'	107.1										
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Prod.			8 X82-B									
			8 X82-B									
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		Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synopsis				Activity Code		
	V	Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change Synopsis		oonding ChangeNotice		Activity Code		
	V	Creator VIII	mhu019 Approver	09.02.2017 Approval Date Diesel	Change ID	Change Synopsis				Activity Code		
Change History	Wi	Creator Creator Interthological States of the Composession of th	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 Synopsis	IG OIL			Activity Code Net Weight	Е	
Change History	Winght Winghizes and ant of	Creator Creator Creator Interther Bill Interthur Great	mhu019 Approver Of Materias & Diesel Ltt. of the document may be used.	09.02.2017 Approval Date Diesel al	Change ID LUBR Dimension Units Main Design	Change Synopsis	IG OIL		1		Е 0.	С

SEQ NO	QTY	/ Item	n ID	Item Name			Dimension	Standard-ID	Basic Material		٧	Net Veight
1	1	107	7.398.114.500	LUBRICATING	G OIL SYSTEM						(0.001
3	1	PA	AD245338	LUBRICATING	G OIL SYSTEM						(0.001
4	1	PA	AD079363	LUBRICATING	OIL DRAIN TANK	((0.001
5	1	107	7.341.455.500	INSTRUCTION	N FOR FLUSHING							0.001
6	1	107	7.400.395.500	LUBRICATING	GOIL DRAIN TANK	((0.001
Prod.			8 X82-B							,		
			8 X82-B									
			8 X82-B									
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	- Rev.	dki02 Creator	21 mhu019		EAAD087222 Change ID	Legacy inforr		ponding ChangeNotice	9	Activity Code	4 E	- C
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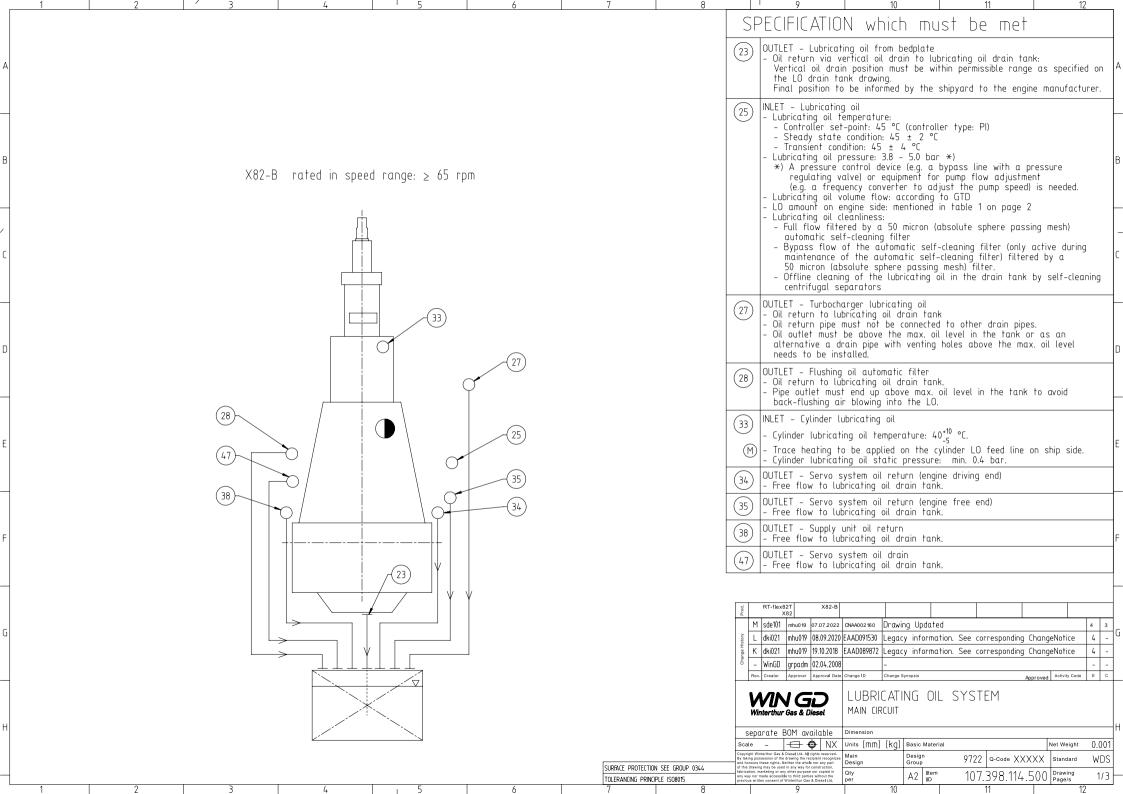
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1	1	107.3	98.114.500	LUBRICATING	OIL SYSTEM						C	0.001
3	1	PAA	0245338	LUBRICATING	OIL SYSTEM						C	0.001
4	1	PAA	0126142	LUBRICATING	OIL DRAIN TANK	(168
5	1	107.3	341.455.500	INSTRUCTION	N FOR FLUSHING						C	0.001
6	1		00.395.500	LUBRICATING	GOIL DRAIN TANK	(0.001
Prod.			9 X82-B									
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		1			EAAD087222 Change ID	Legacy inforr Change Synopsis		ponding ChangeNotice	9	Activity Code	4 E	- C
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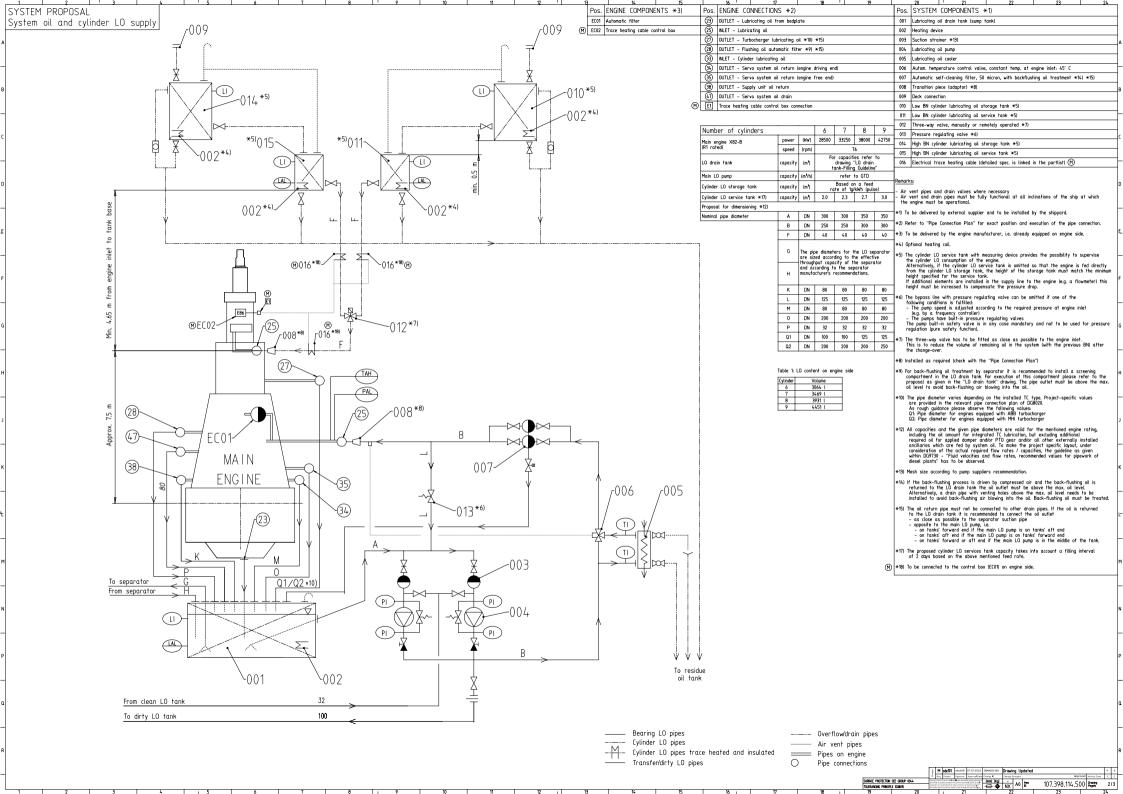
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1	1	107.3	398.114.500	LUBRICATIN	G OIL SYSTEM							(0.001
4	1	PAA	D126142	LUBRICATIN	G OIL DRAIN TANK								168
5	1	107.3	341.455.500	INSTRUCTIO	N FOR FLUSHING							(0.001
6	1	107.4	100.395.500	LUBRICATIN	G OIL DRAIN TANK	((0.001
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		Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change S	ynopsis				Activity Code	-	
	V	Creator	mhu019 Approver	09.02.2017 Approval Date	Change ID	Change S	ynopsis		ponding ChangeNotice		Activity Code	-	
	V	Creator Creator	mhu019 Approver	09.02.2017 Approval Date Diesel	Change ID	Change S	ynopsis				Activity Code	-	
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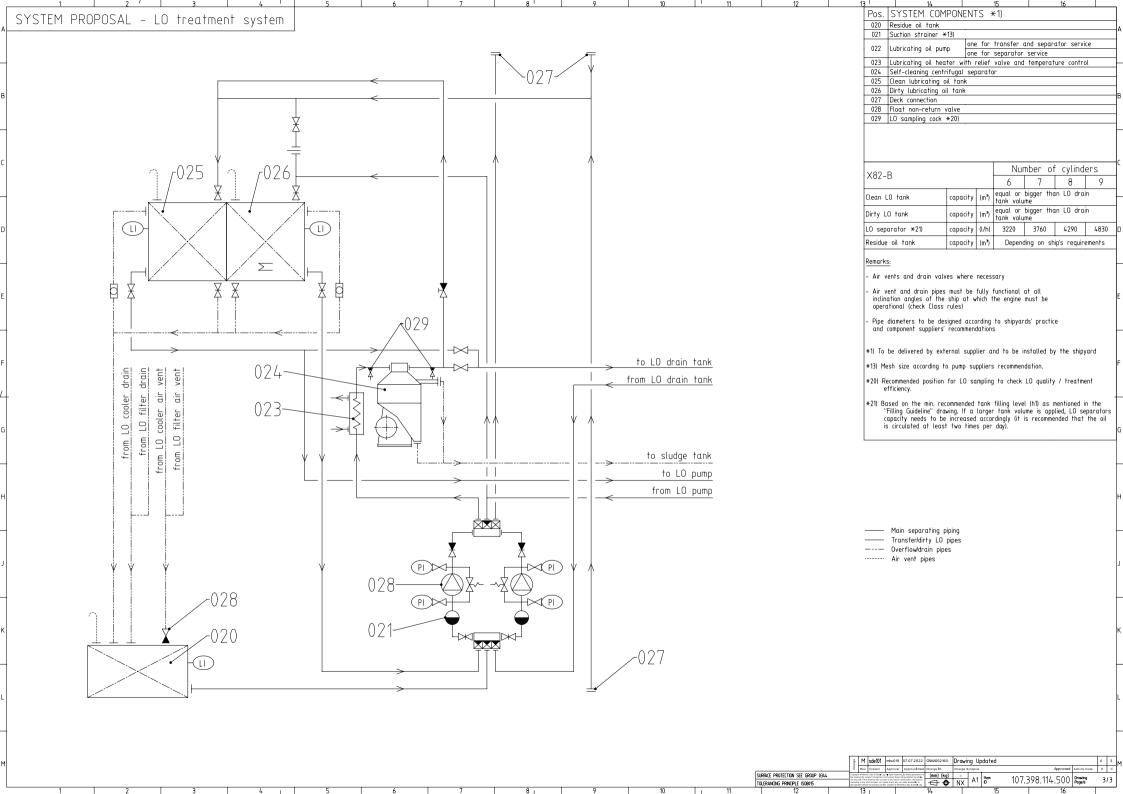
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2	1	PAAD	207844	LUBRICATING	G OIL SYSTEM							(0.001
4	1	PAAD	126142	LUBRICATING	G OIL DRAIN TANK								168
5	1	107.3	41.455.500	INSTRUCTIO	N FOR FLUSHING							(0.001
6	1	107.4	00.395.500	LUBRICATING	G OIL DRAIN TANK	<u> </u>						(0.001
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	QTY	/ Item I	D	Item Name			Dimension	Standard-ID	Basic Material		٧	Net Veight
2	1	PAA	D207844	LUBRICATING	G OIL SYSTEM						0	0.001
3	1	PAA	D245338	LUBRICATING	G OIL SYSTEM						C	0.001
4	1	PAA	D126142	LUBRICATING	G OIL DRAIN TANK							168
5	1	107.3	341.455.500	INSTRUCTION	N FOR FLUSHING							0.001
6	1		400.395.500	LUBRICATING	G OIL DRAIN TANK	,						0.001
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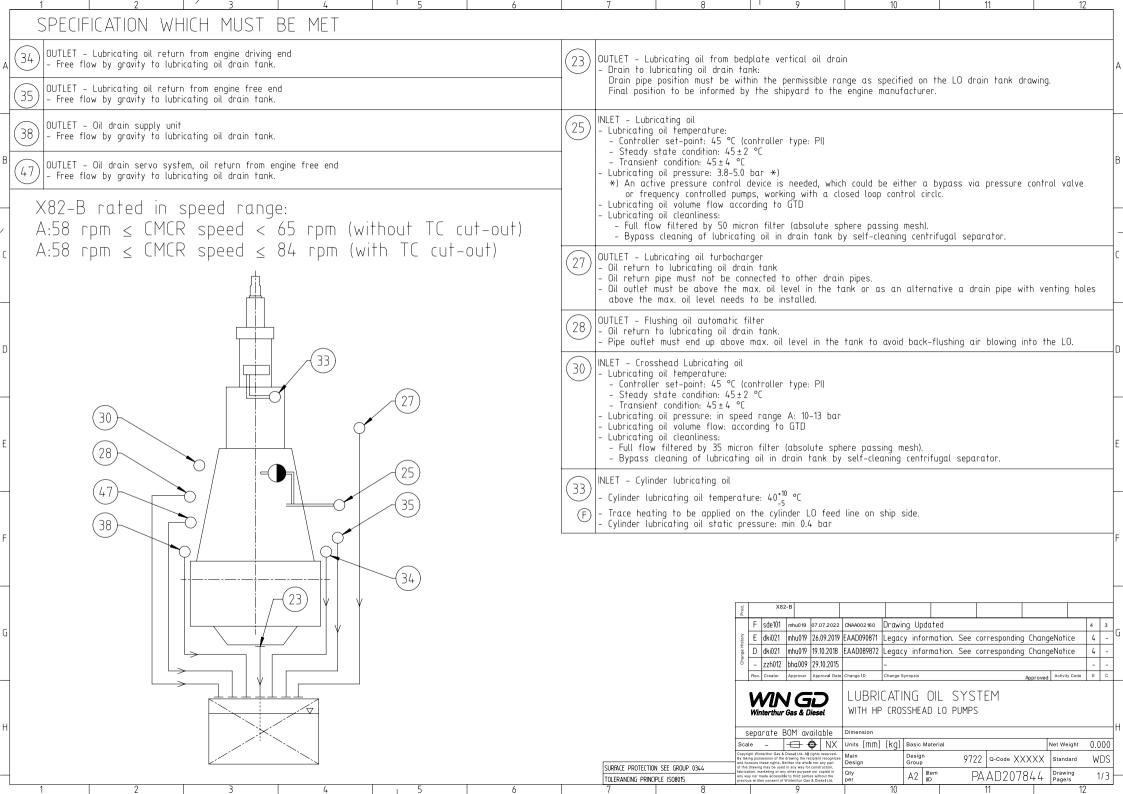
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16	1	PAAD3	308926	HEATING ELE	MENT							0.12
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5		RT-fle)	x82T X82	X82-B								
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	L K	sde101 dki021 dki021 grpadm	mhu019 mhu019 mhu019 grpadm	07.07.2022 08.09.2020 19.10.2018 02.04.2008	EAAD091530 EAAD089872 Change ID	Legacy informa Legacy informa - Change Synopsis	ation. See corresp ation. See corresp	conding ChangeNotice	Approved	Activity Code	4 4 -	
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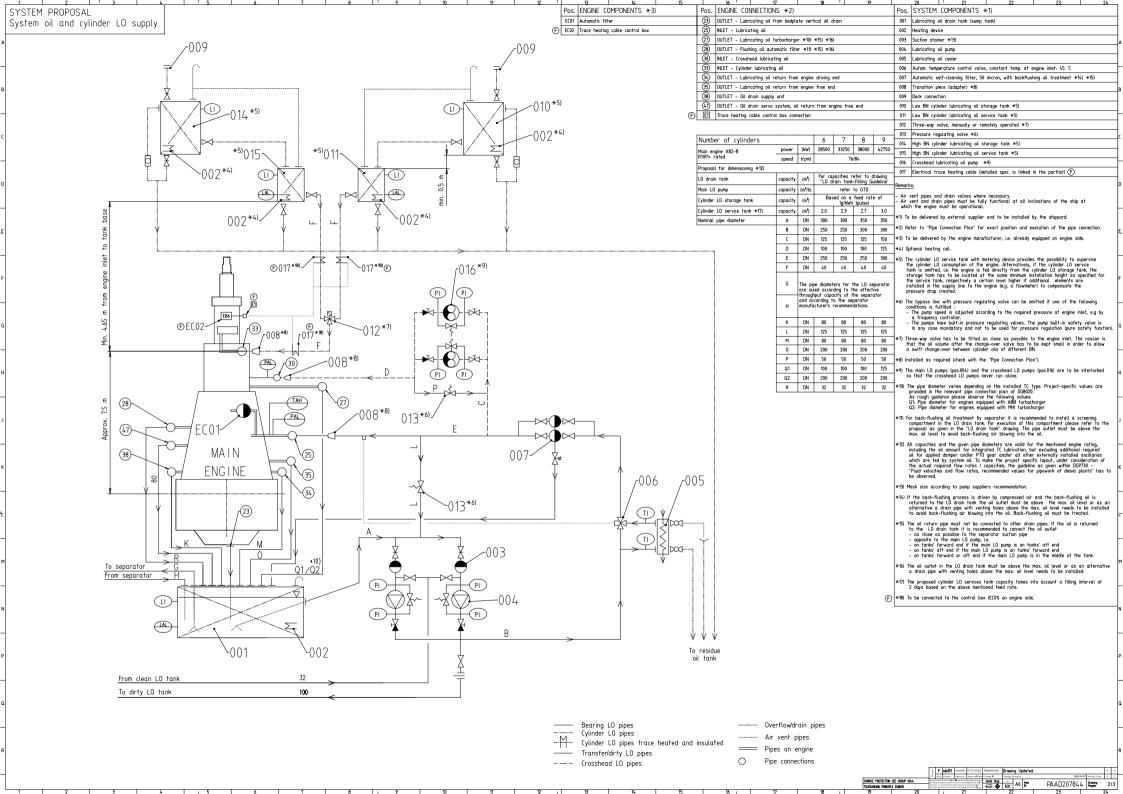


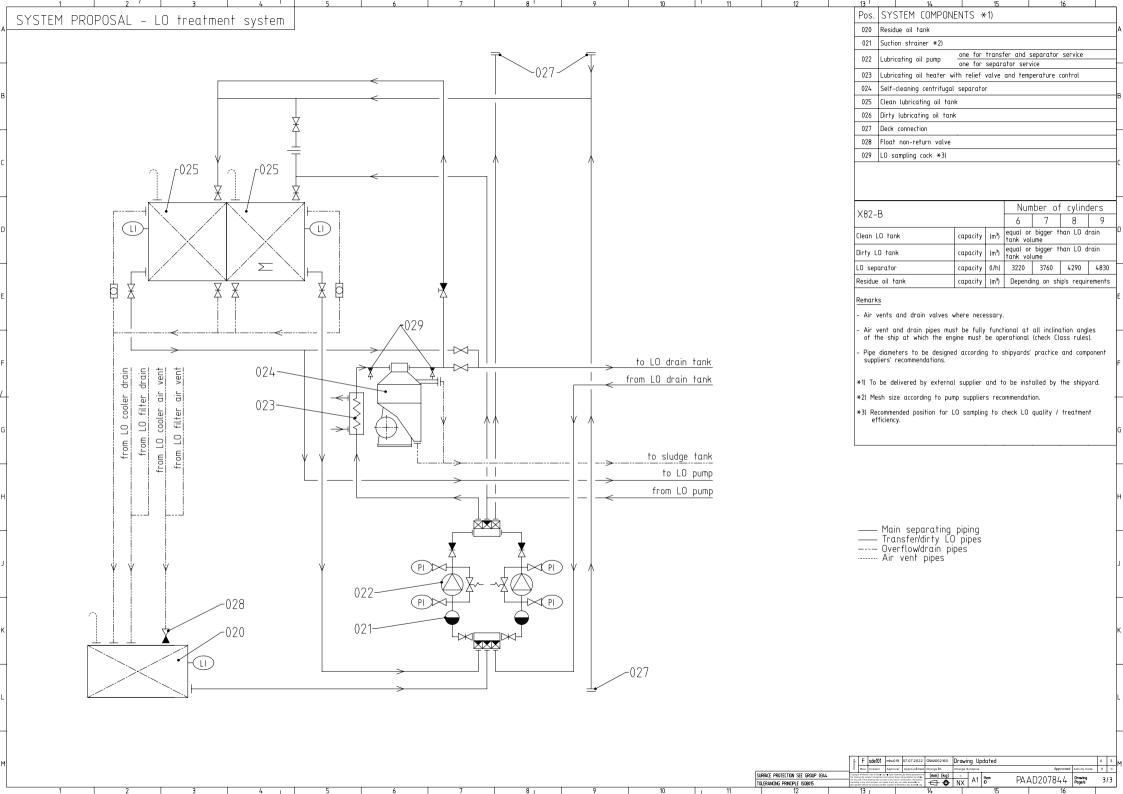


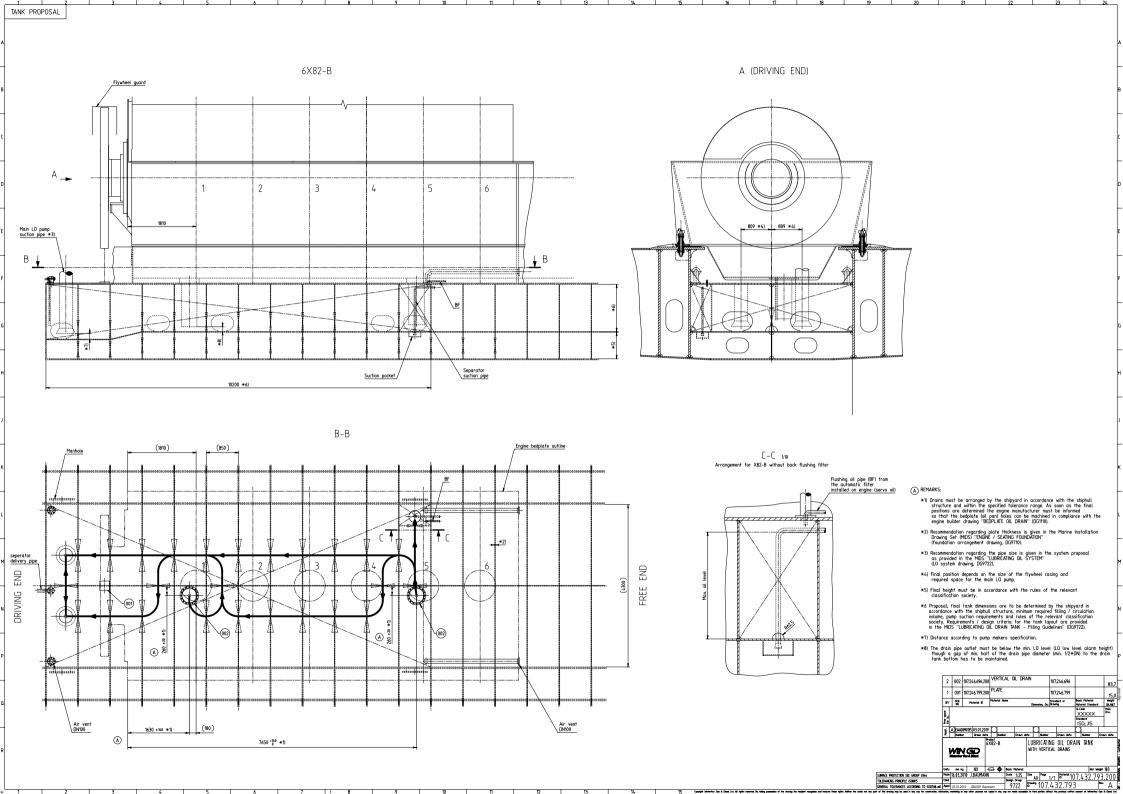


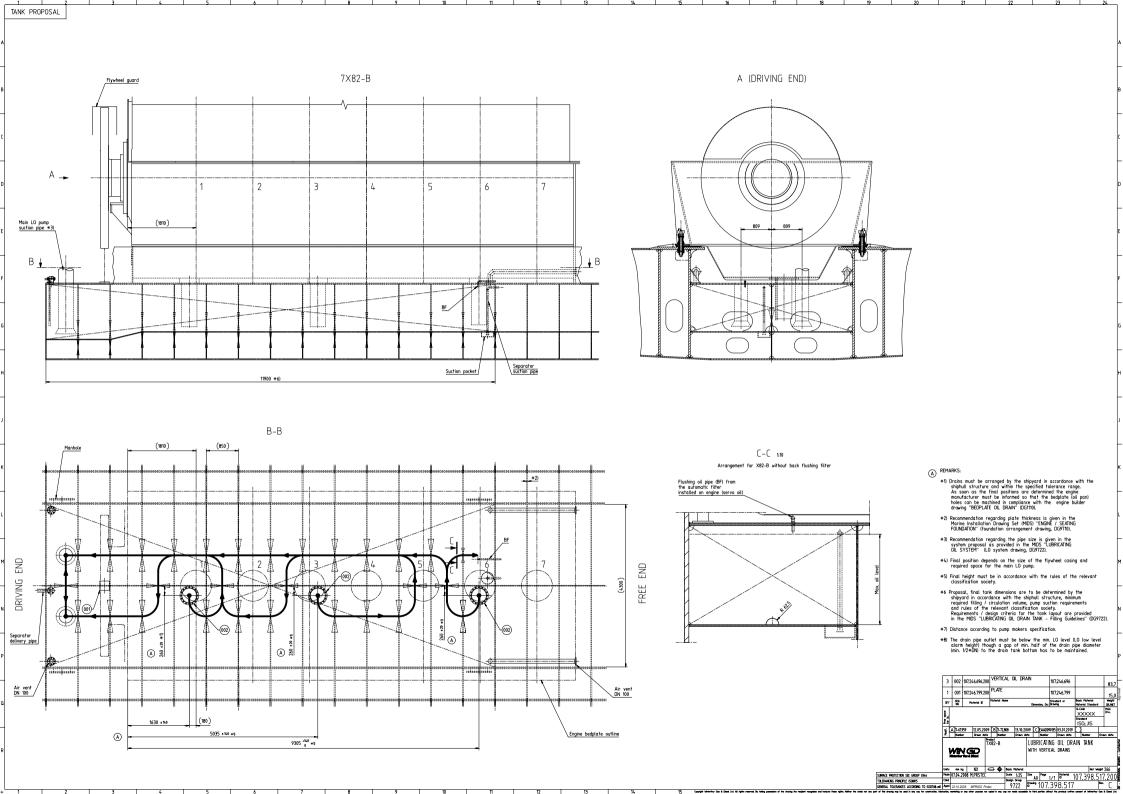
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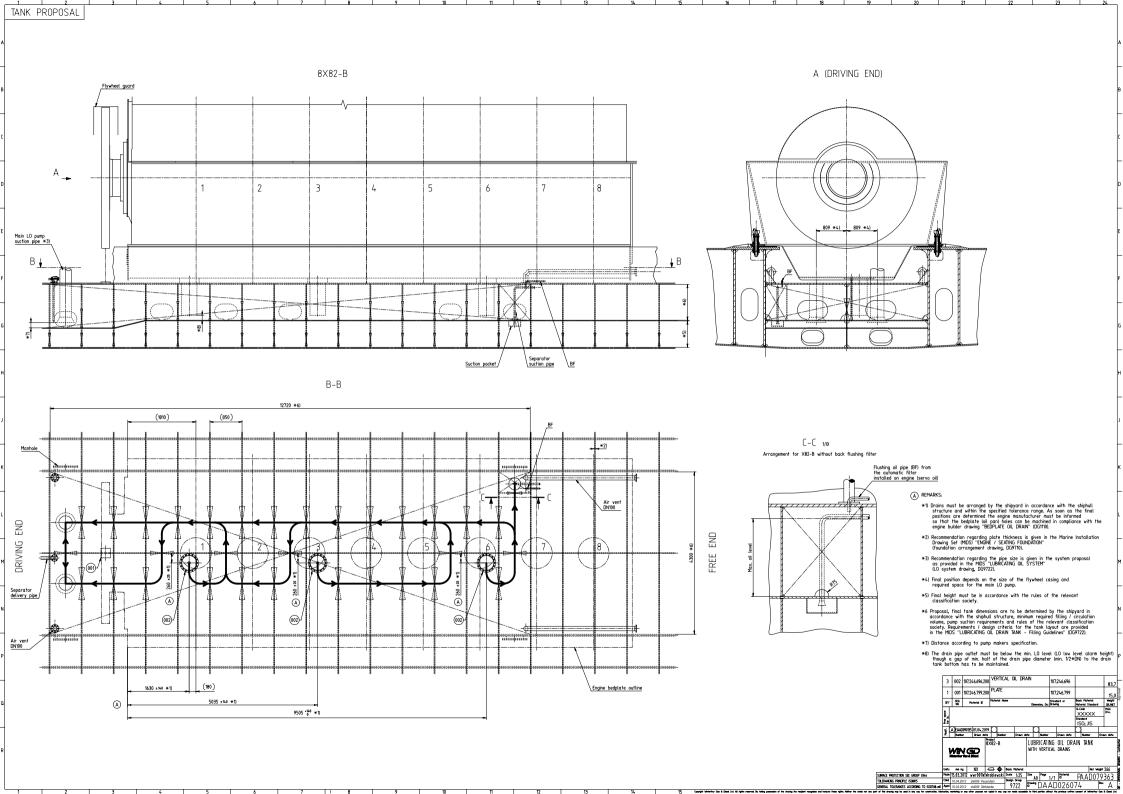


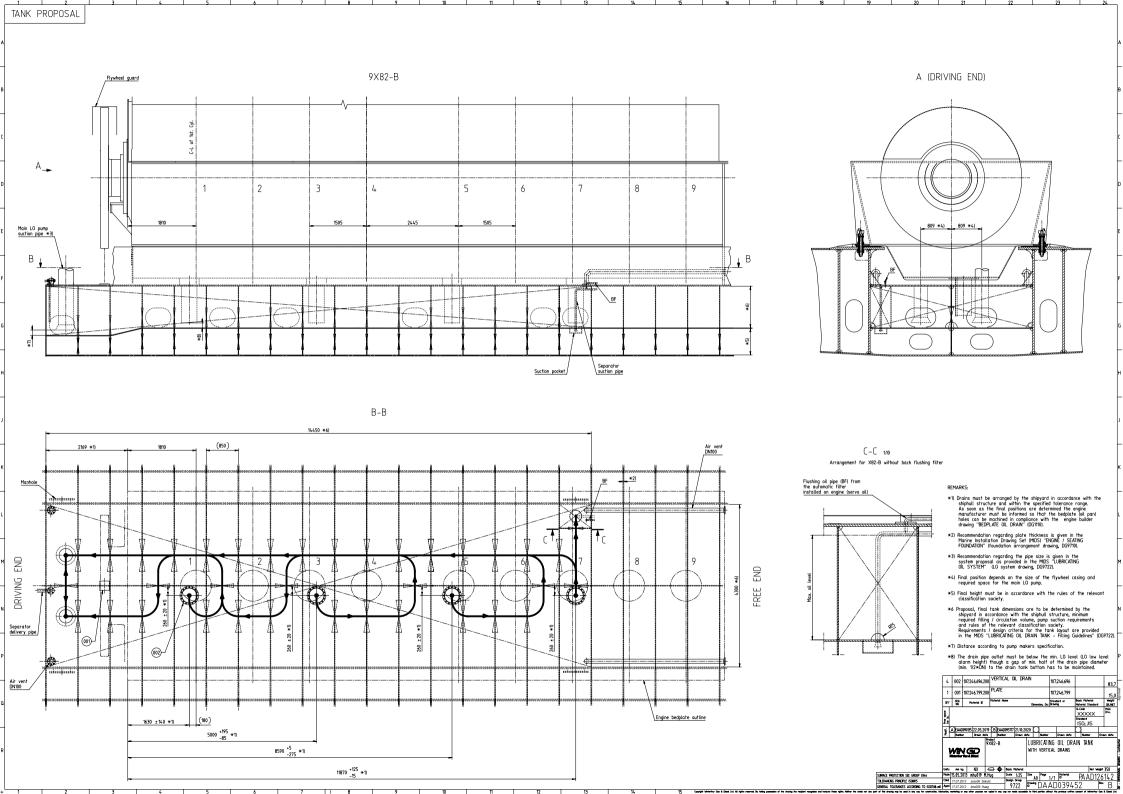


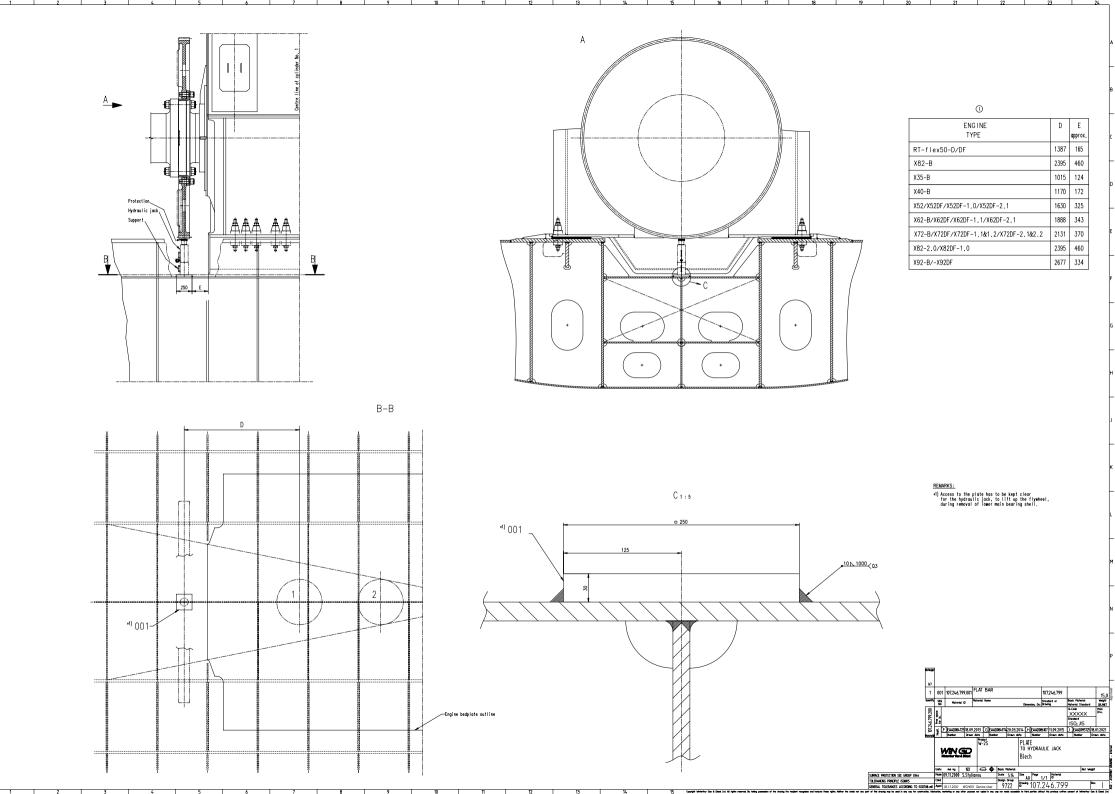


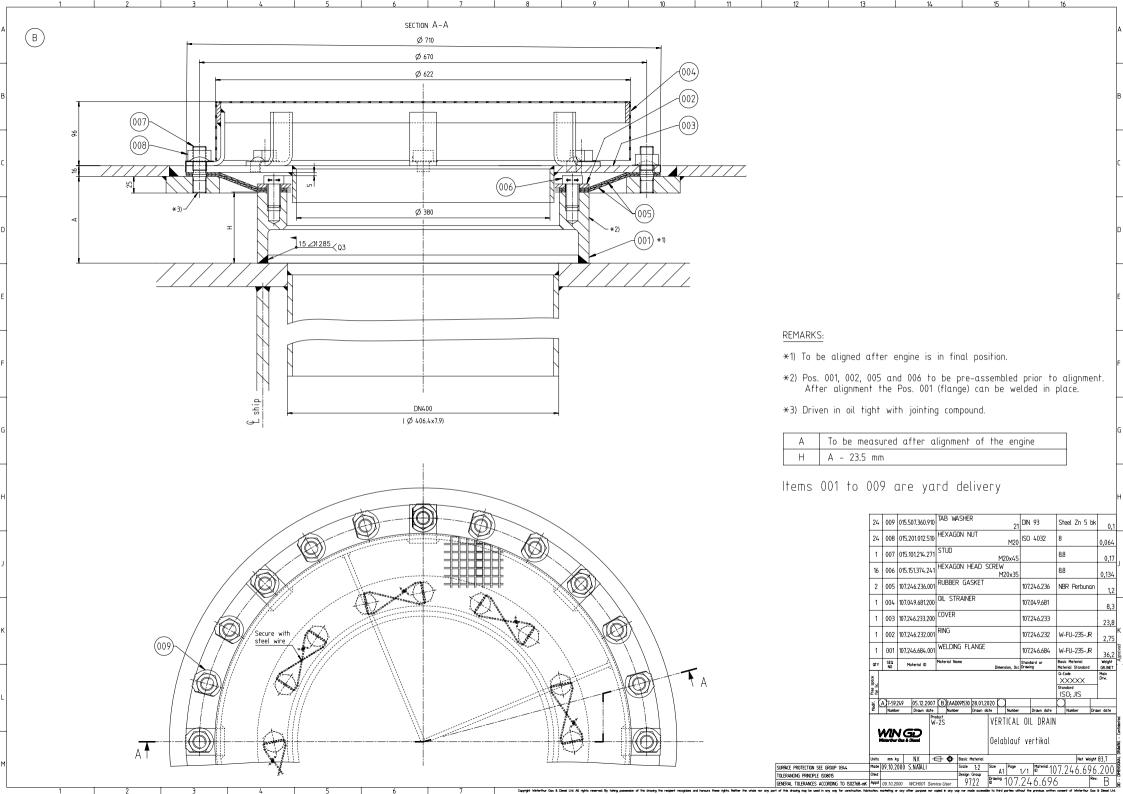


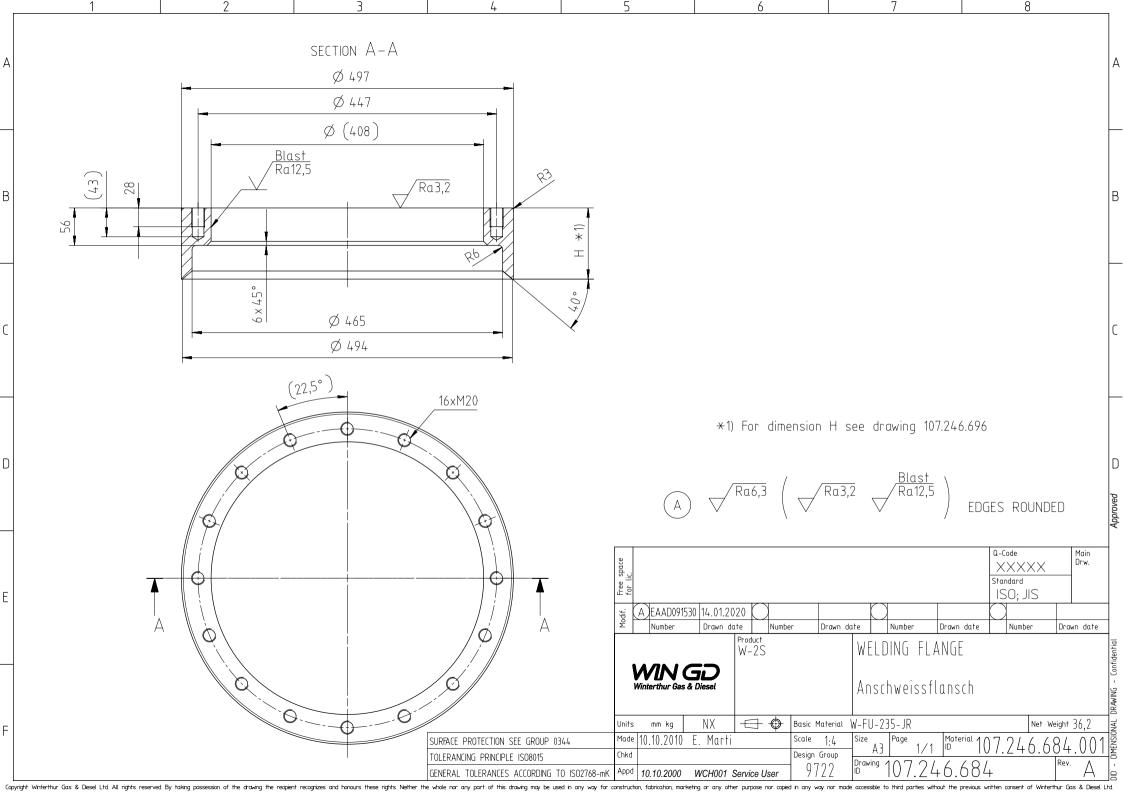


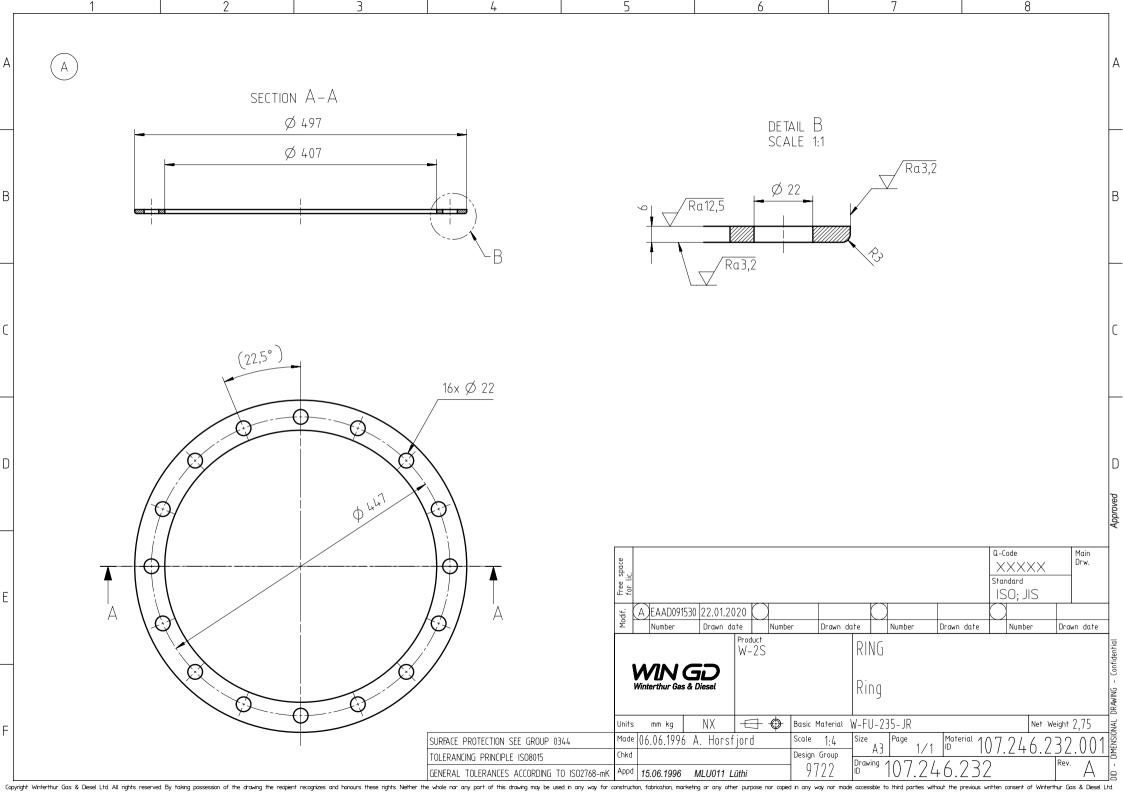


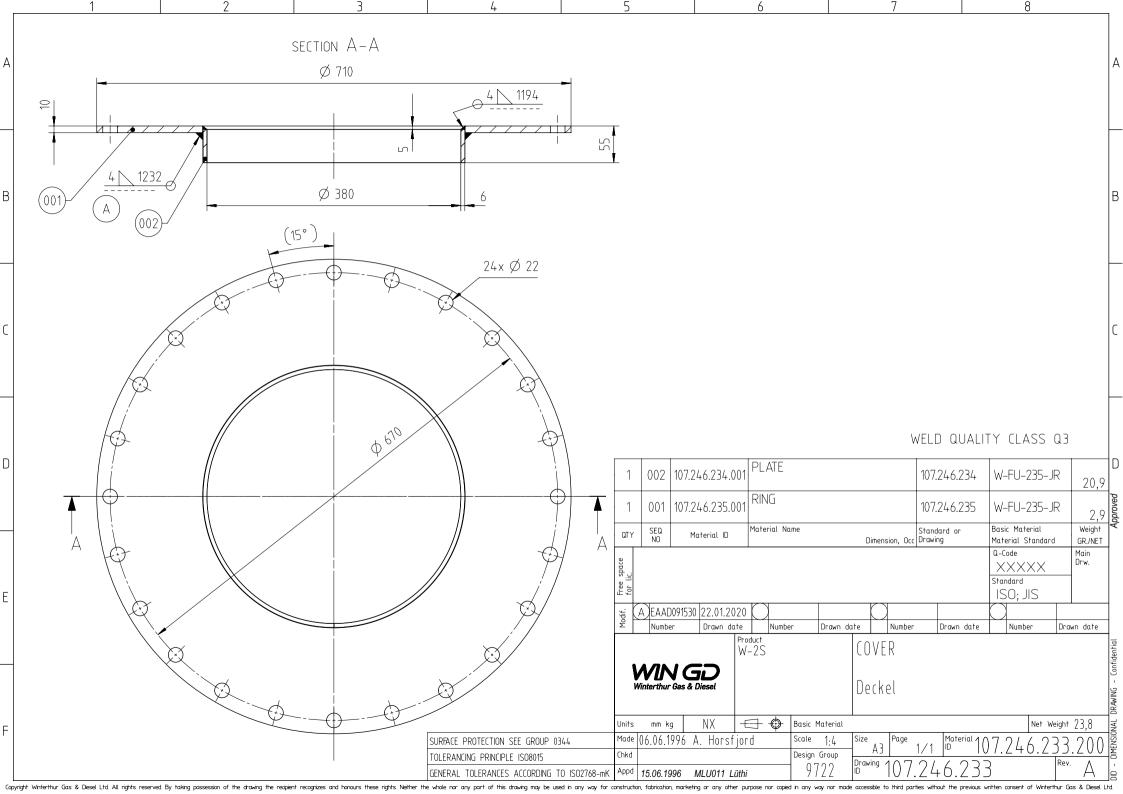


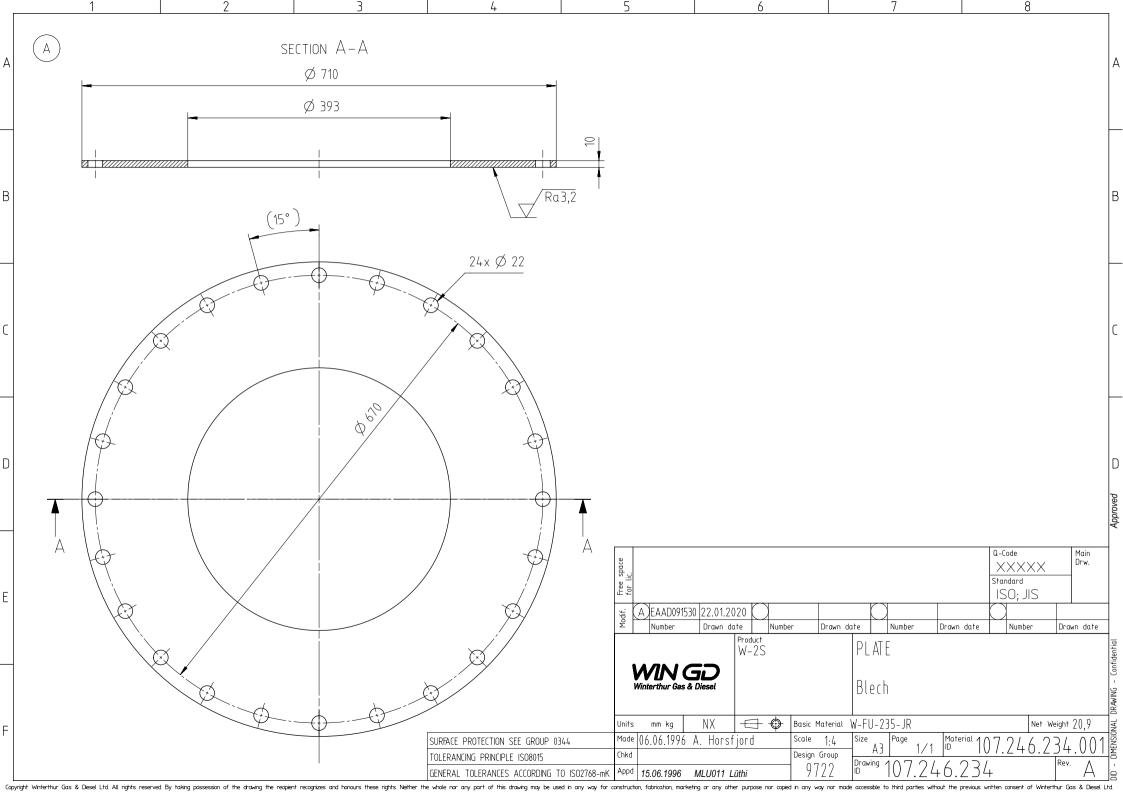


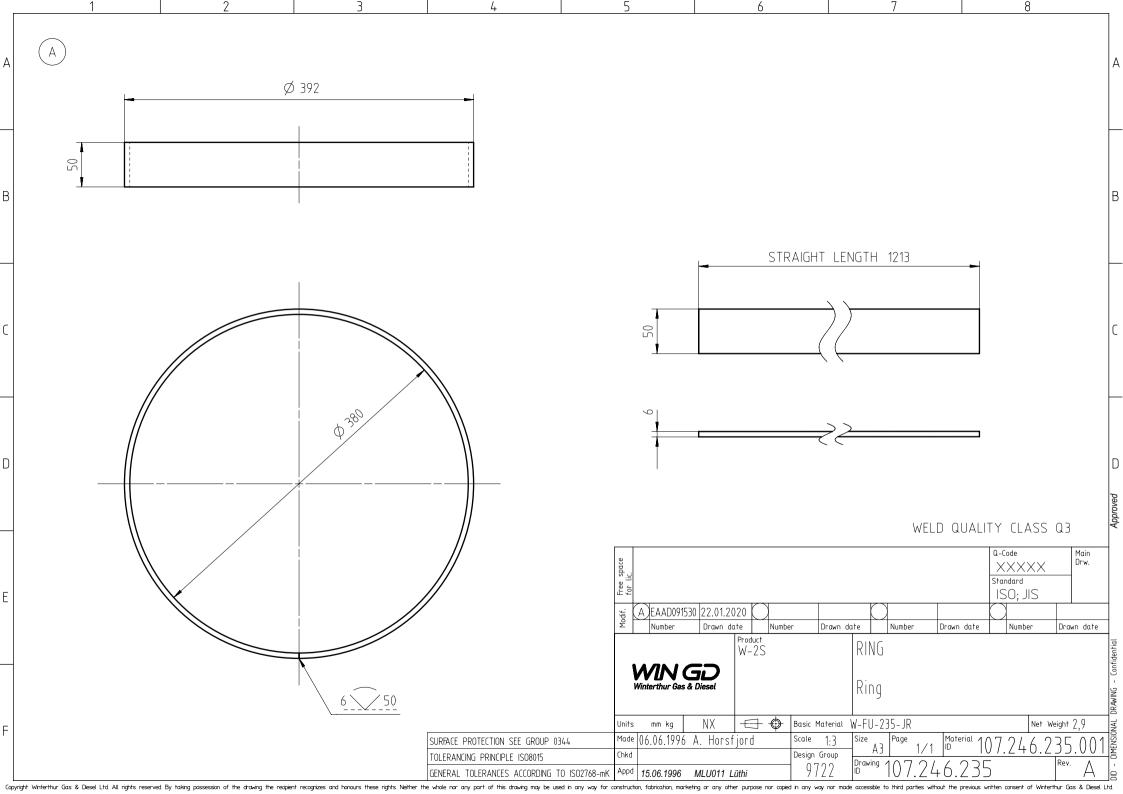


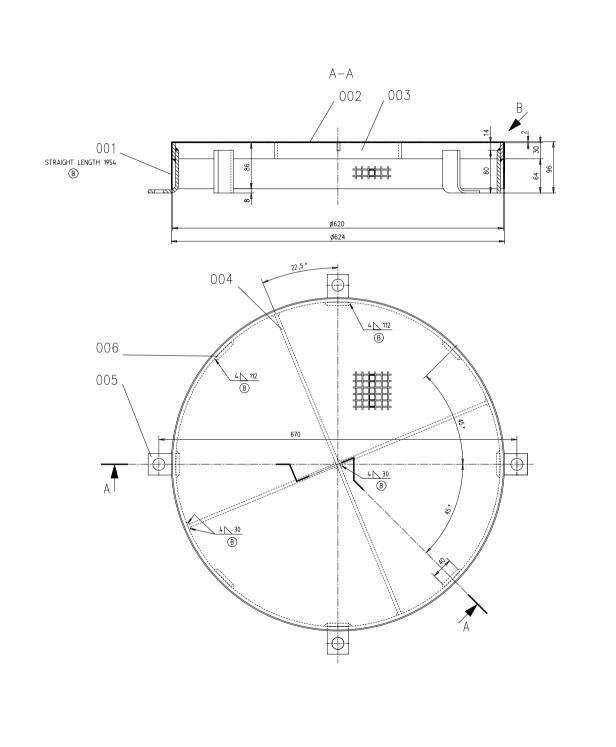


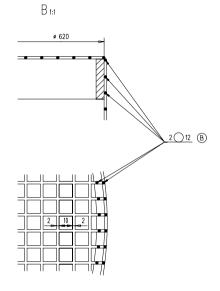








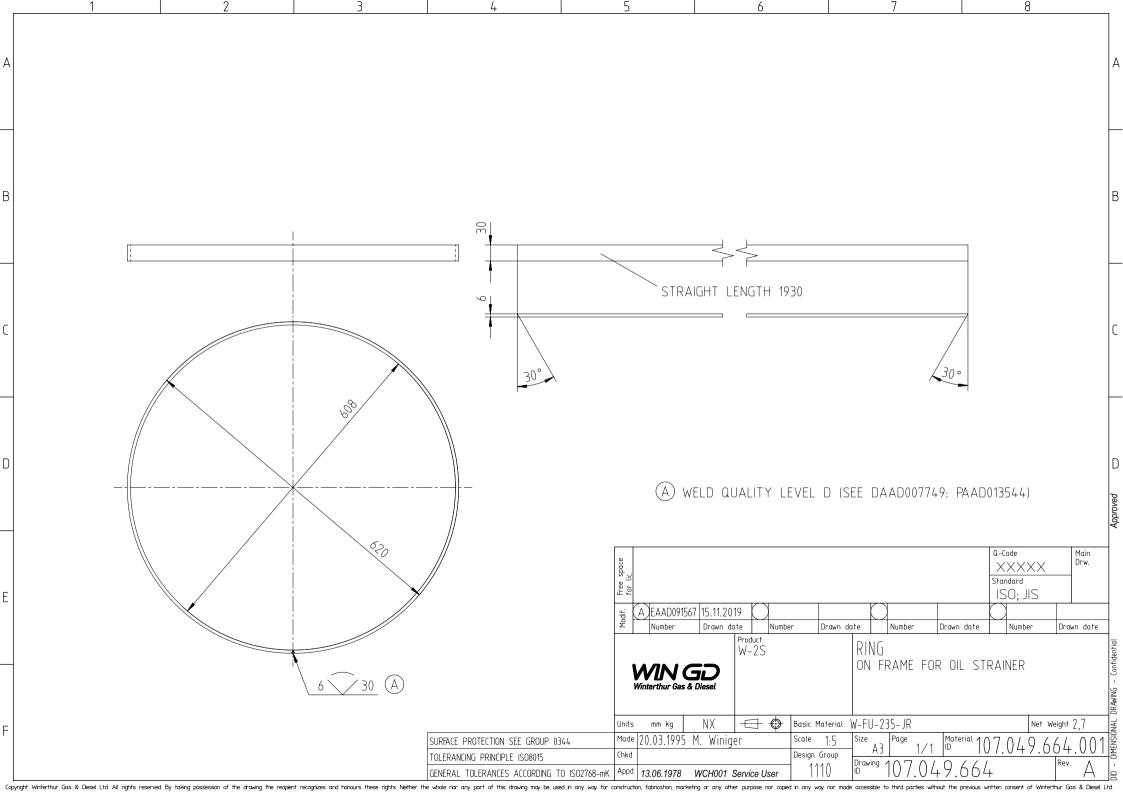


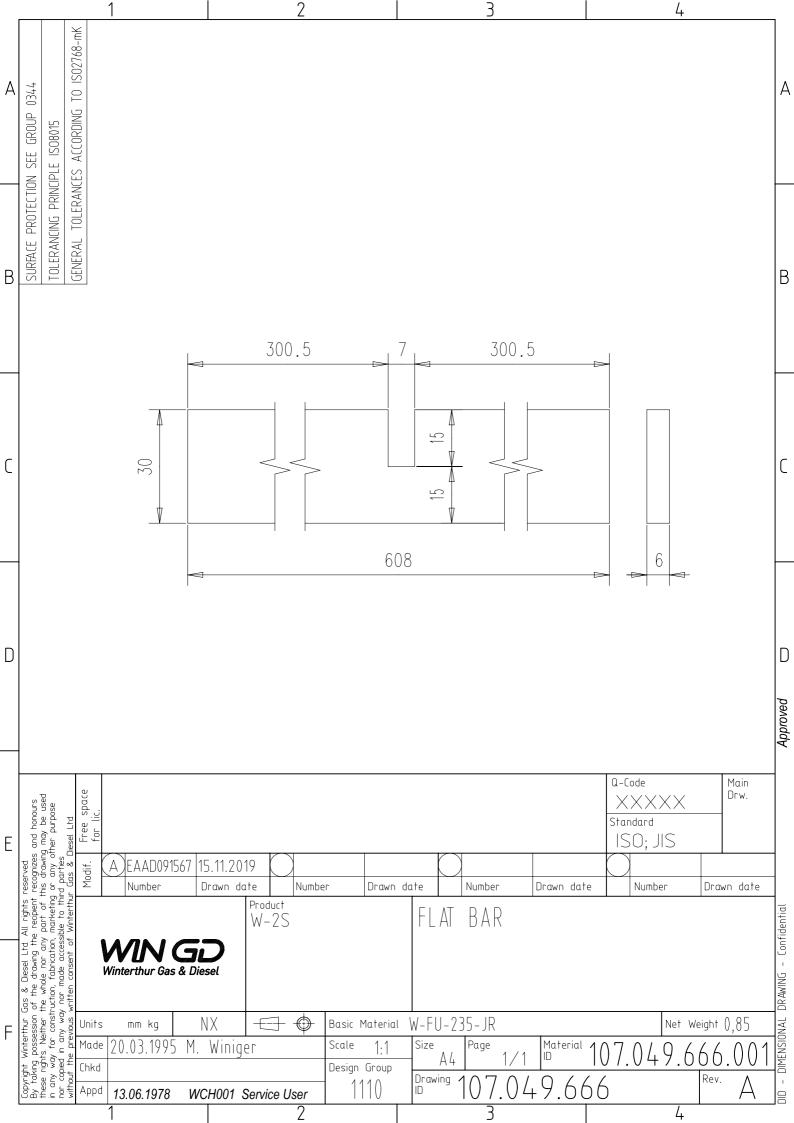


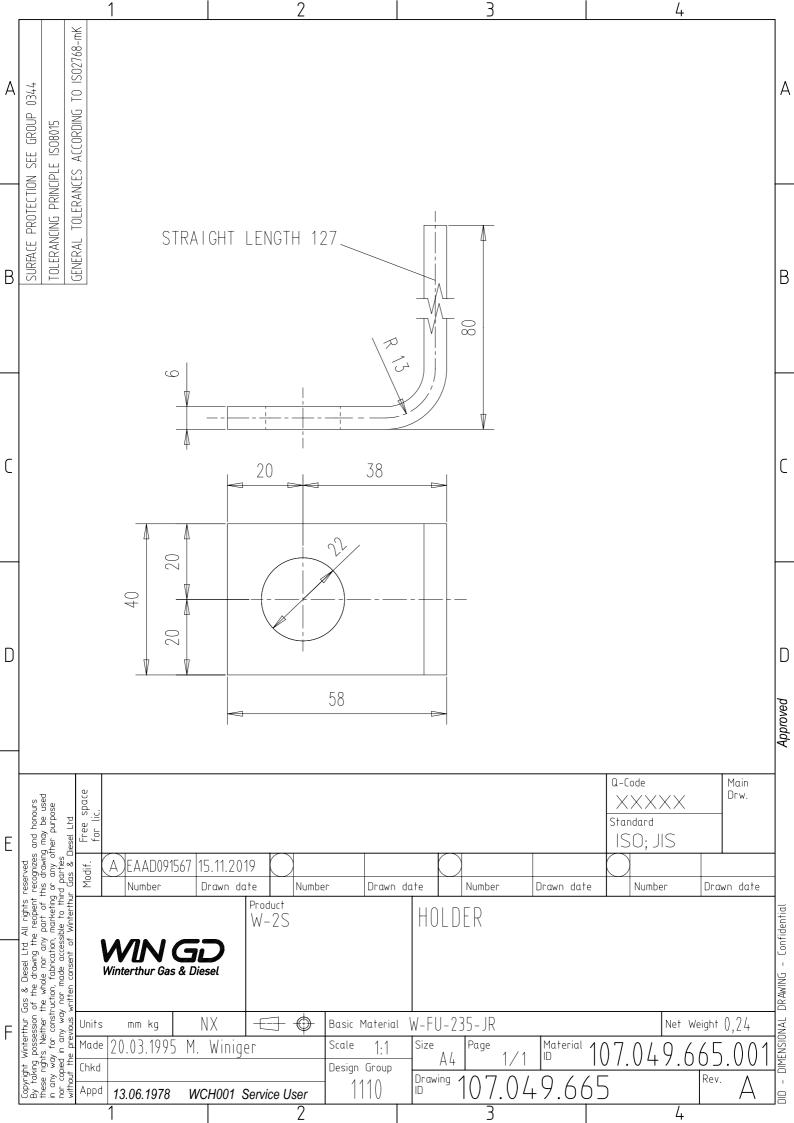
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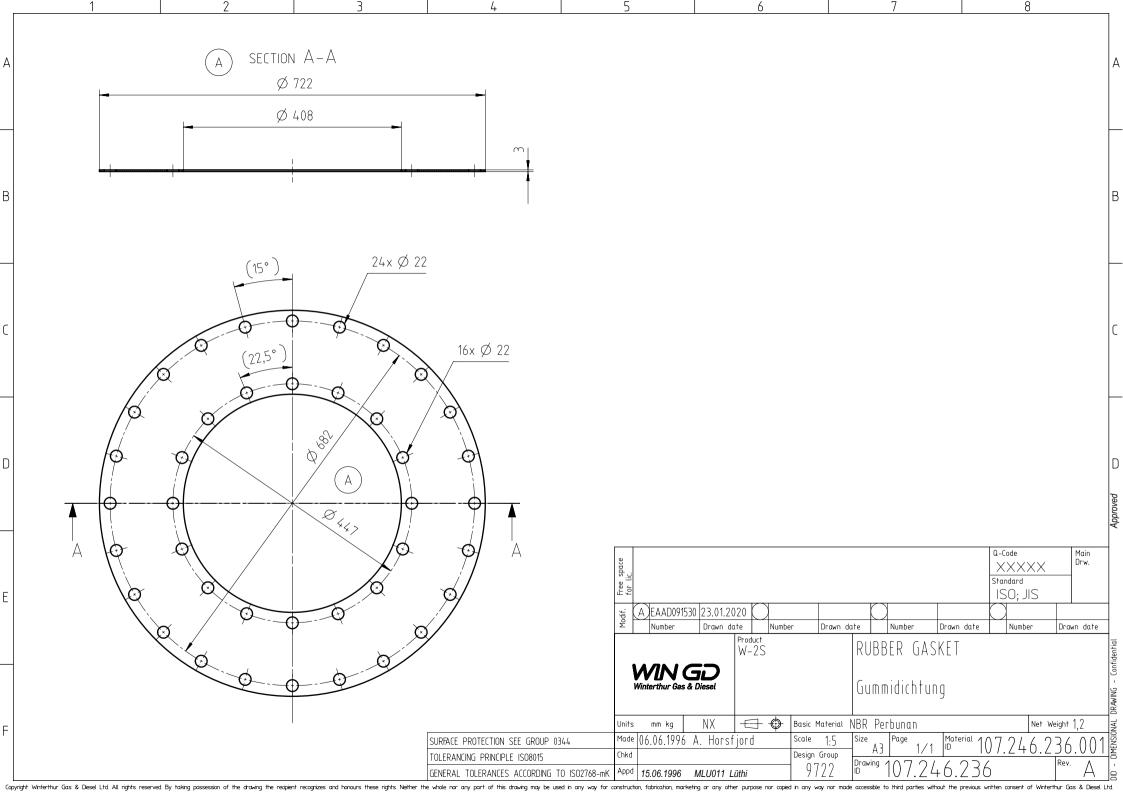
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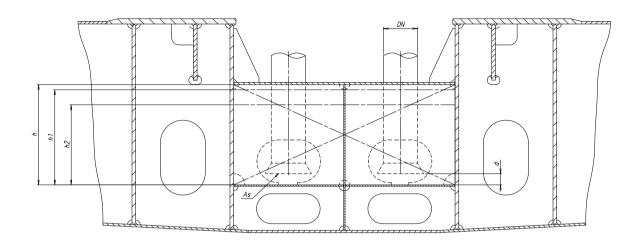
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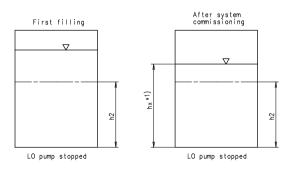


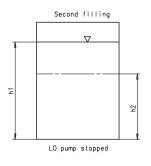


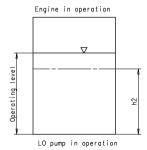




LO DRAIN TANK - FILLING PROCESS







Specifications that need to be met:

Dimensioning guidelines and capacities for tank design

		No. of cylinders		6	7	8	9					
<u></u>	L .	Recommended total tank height	(mm)	acc, to installation requirements								
(h	Recommended total tank volume: 105% *4)	(m3)	31	45							
(D)	h1	Recommended filling level	(mm)	acc. to installation requirements								
(U)	1111	Recommended volume: 100% *4)	(m3)	29	34	38	43					
	h2	Low-level alarm	(mm)	*2)								
	l nz	Volume	(m3)	*2)								
D	٧r	Min. retention volume *5)	(m3)	15	17	20	22					
	d	Distance between suction pipe and bottom of tank	(mm)	*3)								
	As	Suction area		min. 1.5 x suction pipe area (D								

REMARKS:

- *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.

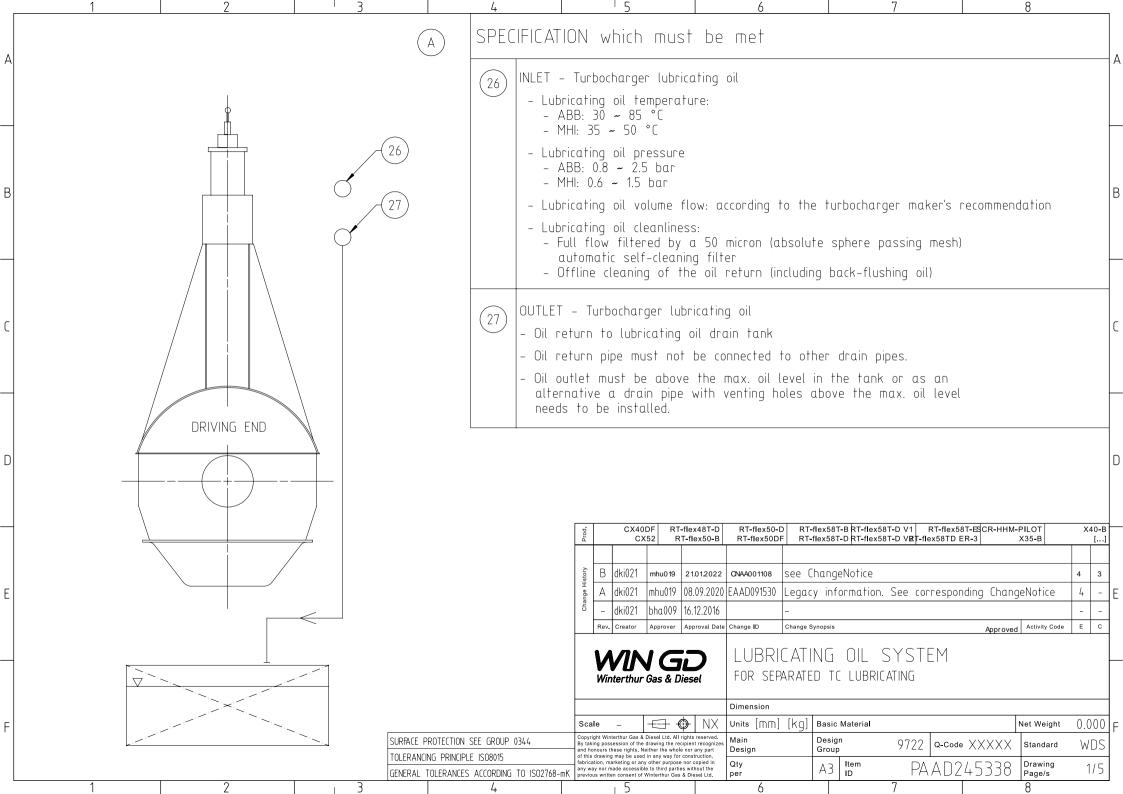
Minimum inclination angles comply with the rules of classification societies:

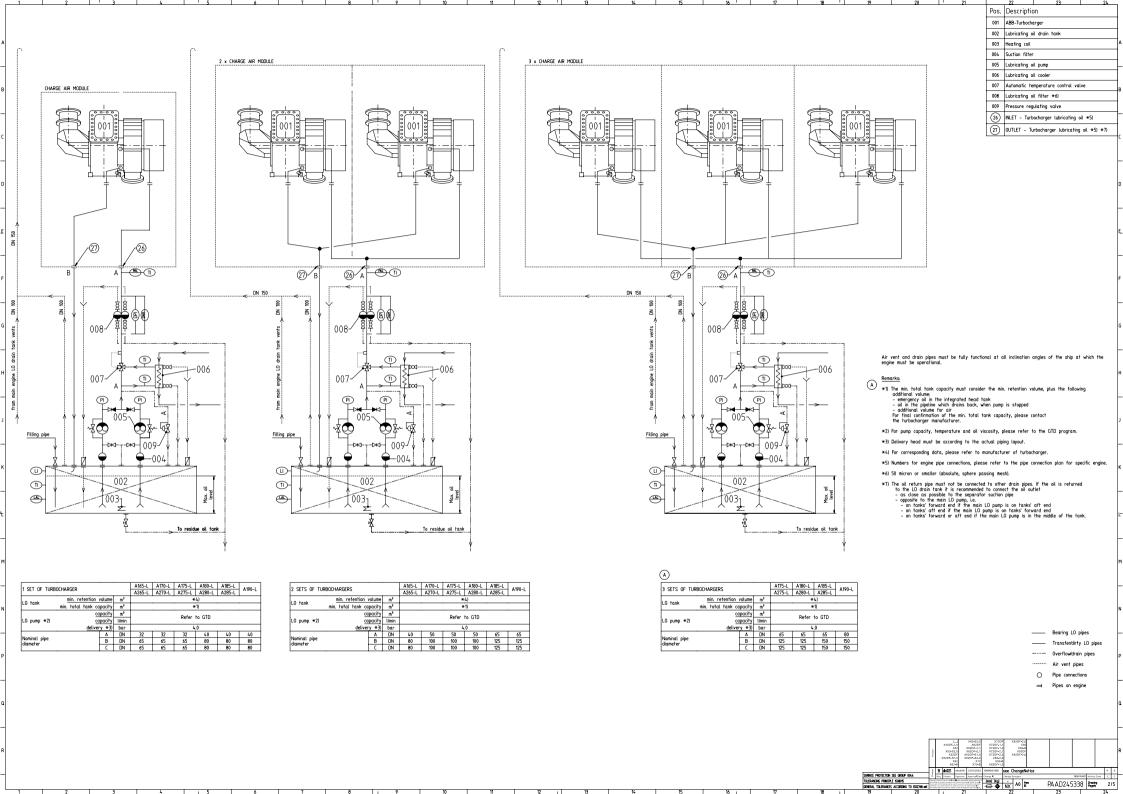
| Heel to each side | 15° | 22.5 | 500/L, max. 5° | L: ship length in meter | Example L = 250 m | Trim = 500/250 = 2° | 15° |

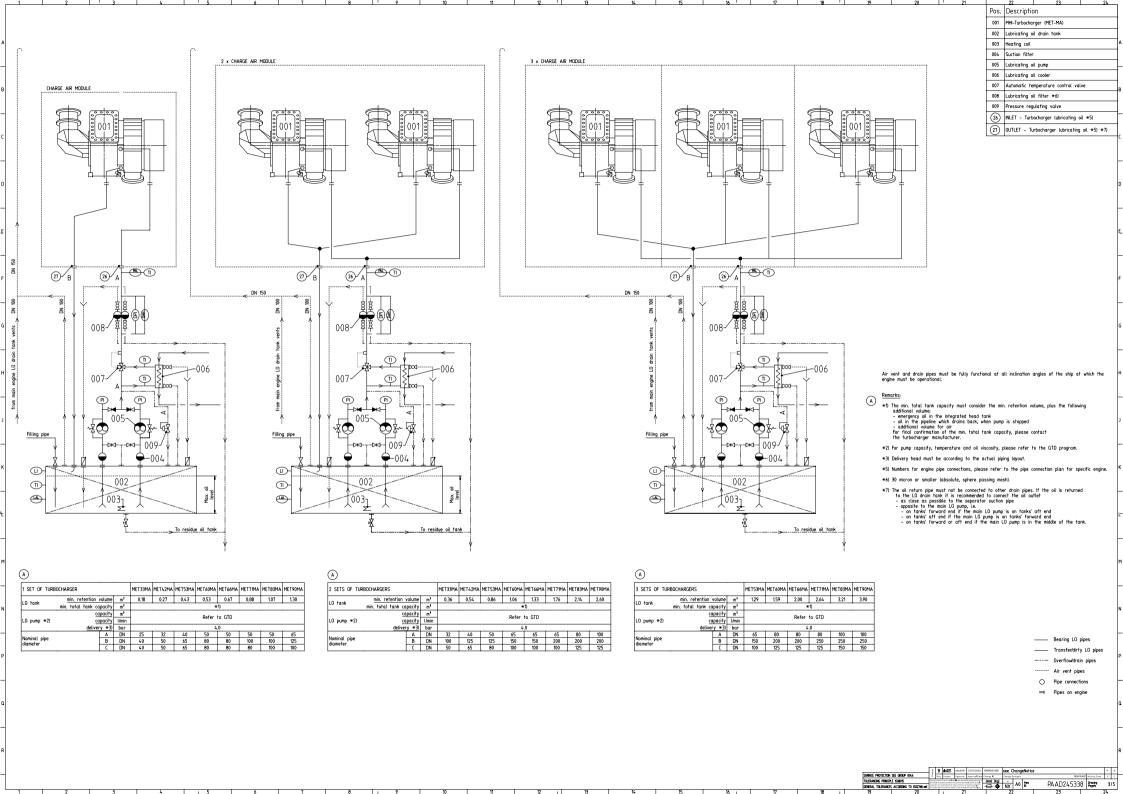
Additionally this level has to be above or equal to the minimum retention volume (Vr) for M/E operation.

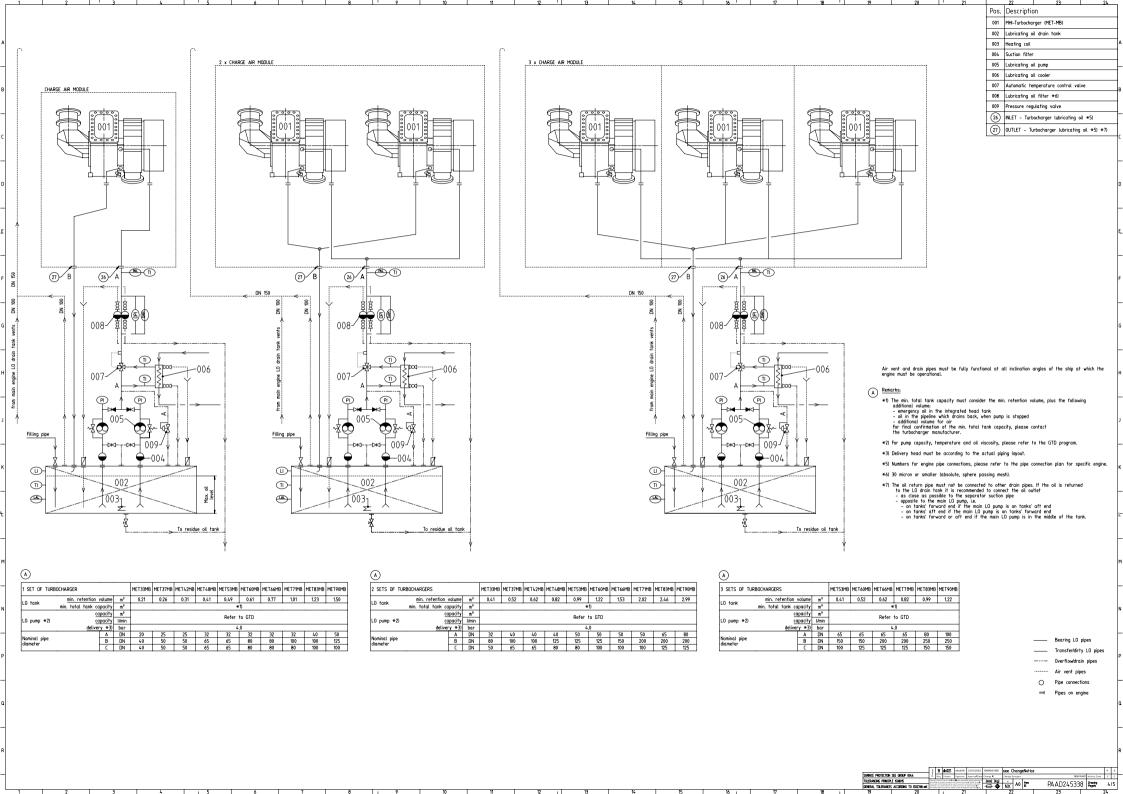
- *3) Distance (d) between suction pipe inlet of main LO pumps and LO drain tank bottom has to be in accordance with the requirements of the pump manufacturer. As guideline the following formula can be applied: d * DN/4 + 40, d * min. 80 mm.
- *4) The stated tank volume represent the min. requirement.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

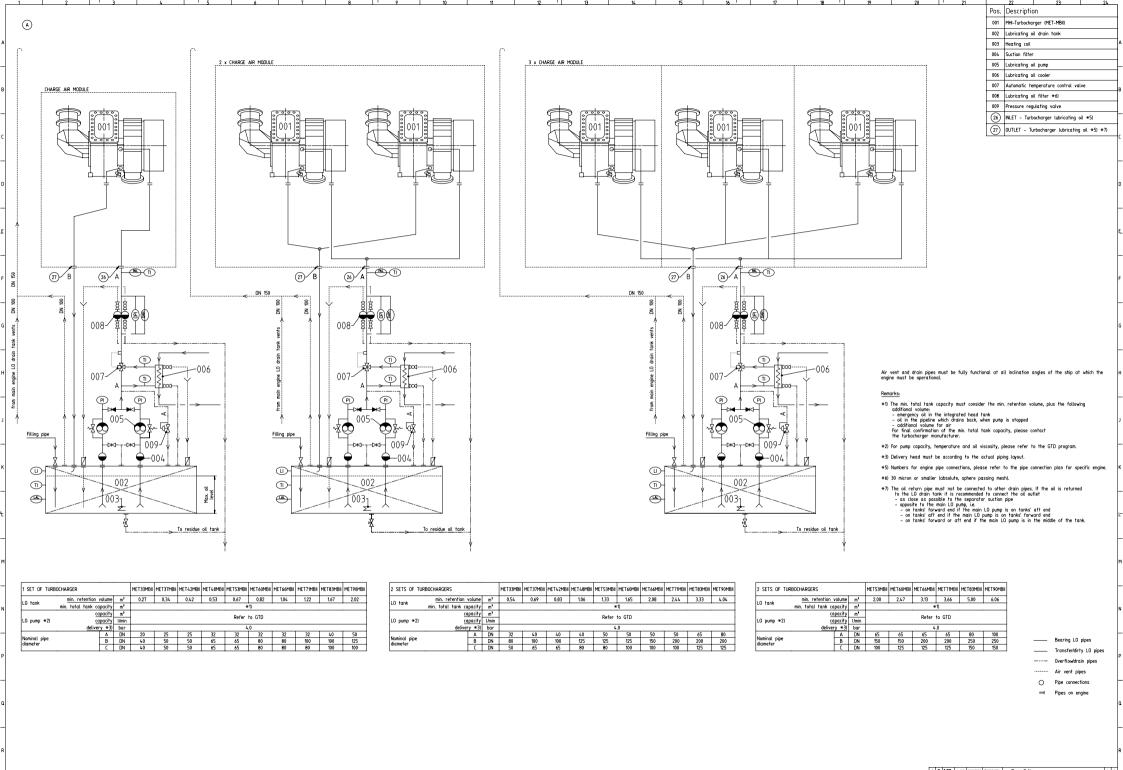
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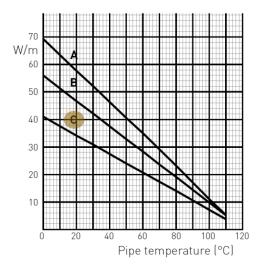






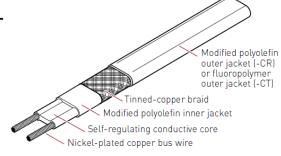
Self-Regulating Heating Cable 10QTVR2-CT

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-X82-B - LUBRICATING-OIL-SYSTEM (DG9722)

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2017-02-24	DRAWING SET	First web upload
2018-05-18	107.398.114 DAAD071685	System drgs – new revision
2018-10-18	107.398.114 DAAD071685	System drgs – new revision
2019-07-24	107.432.793 DAAD026074 107.398.517 DAAD039452	LO drain tank drgs – new revision
2019-09-26	DAAD071685	System drg – new revision
2020-09-24	107.398.114 107.246.696 107.246.684 107.246.232 107.246.233 107.246.235 107.049.681 107.049.664 107.049.666 107.049.665 107.246.236 DAAD083642	System and tank assembly drgs – new revision
2020-11-25	DAAD039452	Lubricating oil drain tank drg – new revision
2021-05-19	107.246.799	Hydraulic jack plate positioning drawing – new revision
2022-07-18	107.398.114.500 PAAD207844	System drgs – new revision

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