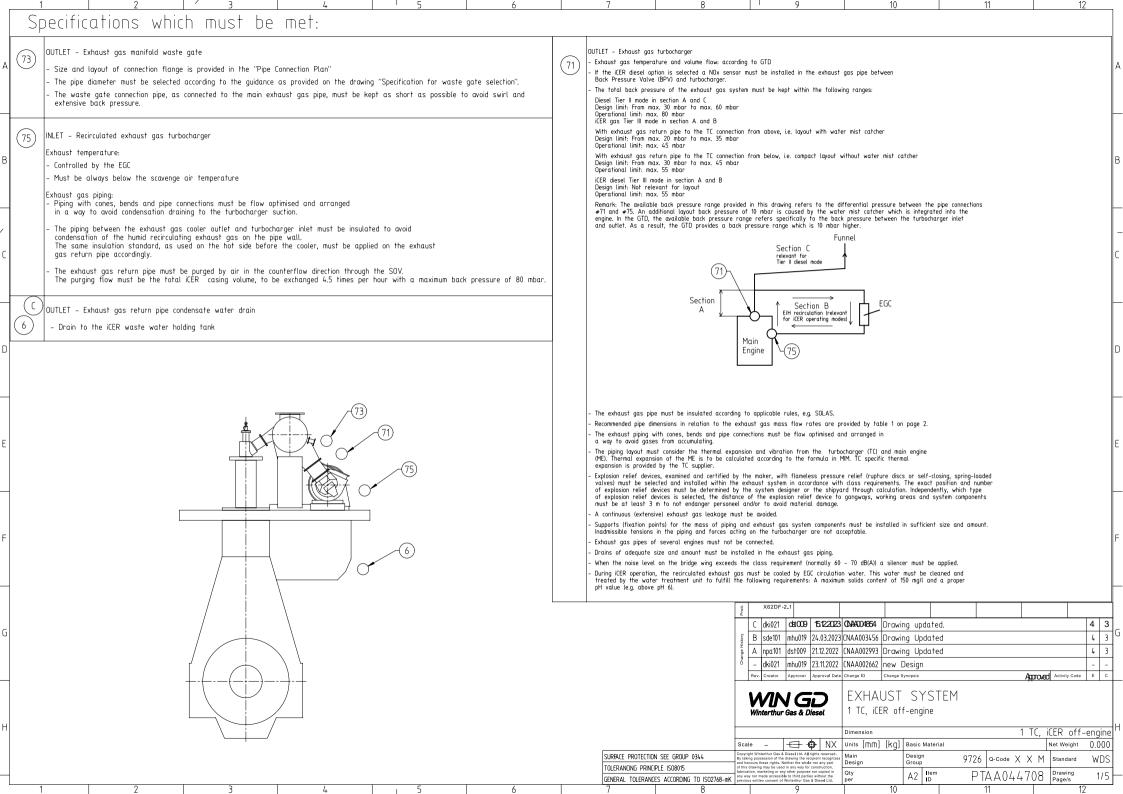
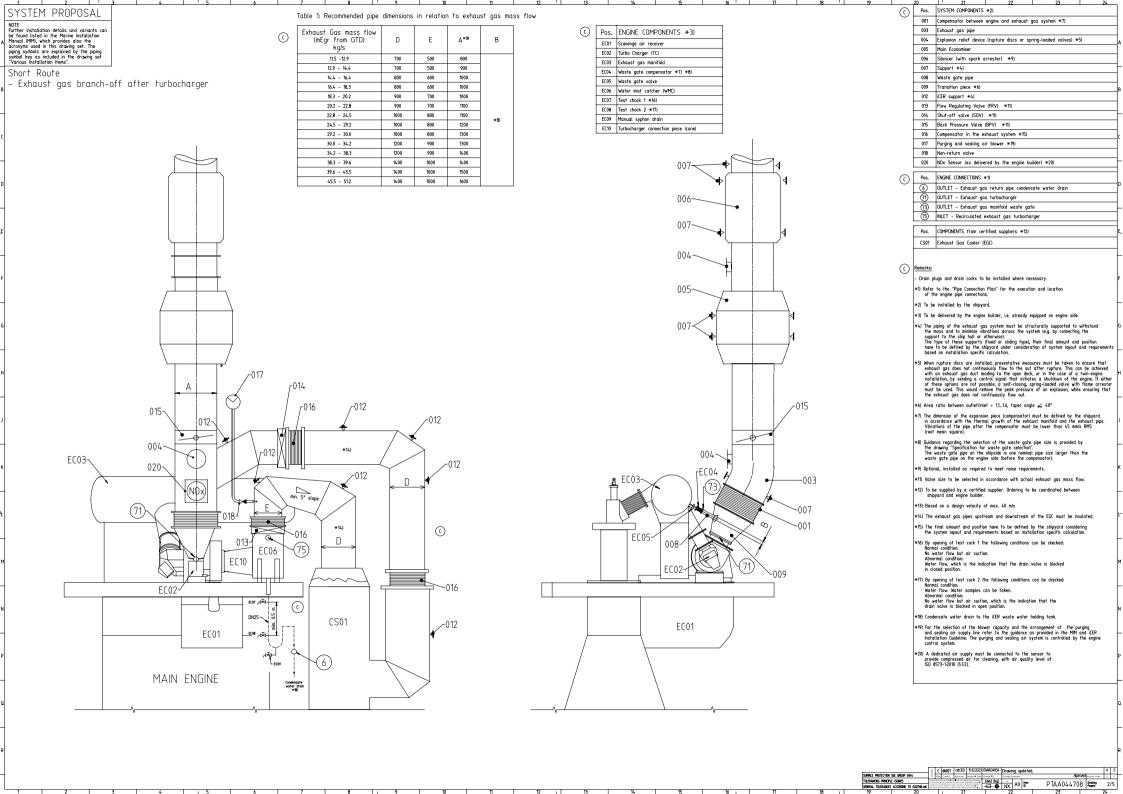
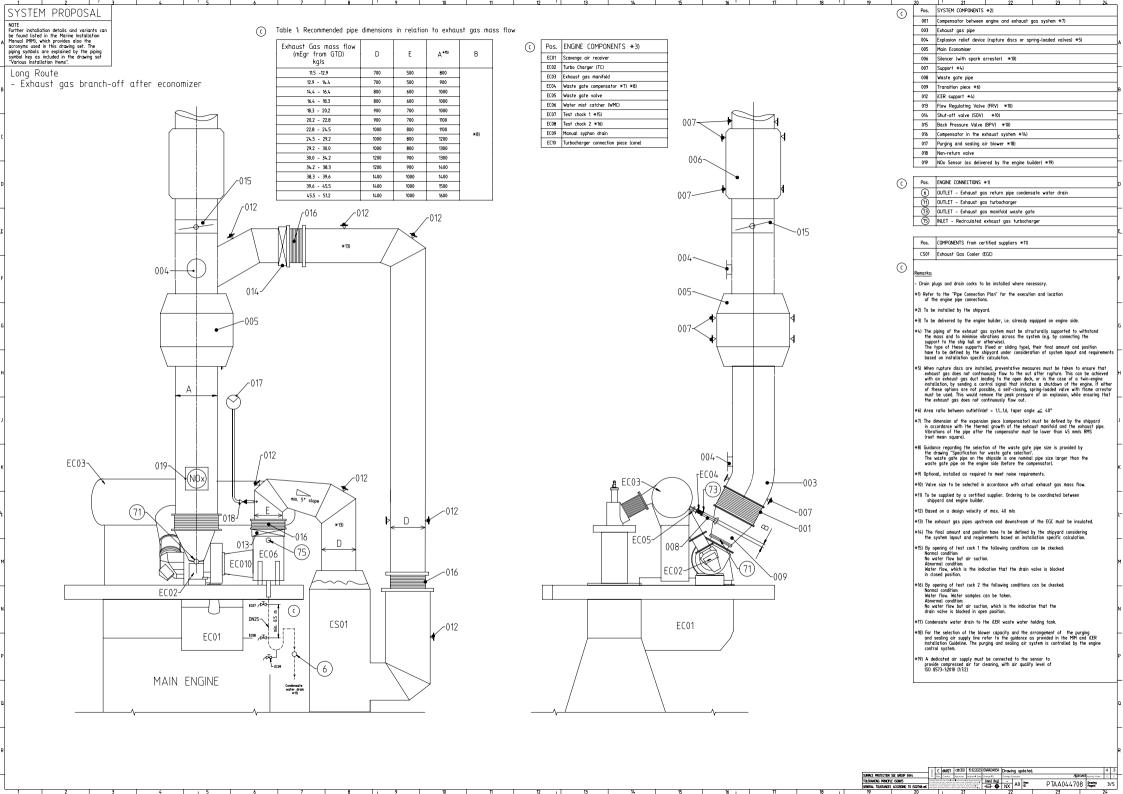
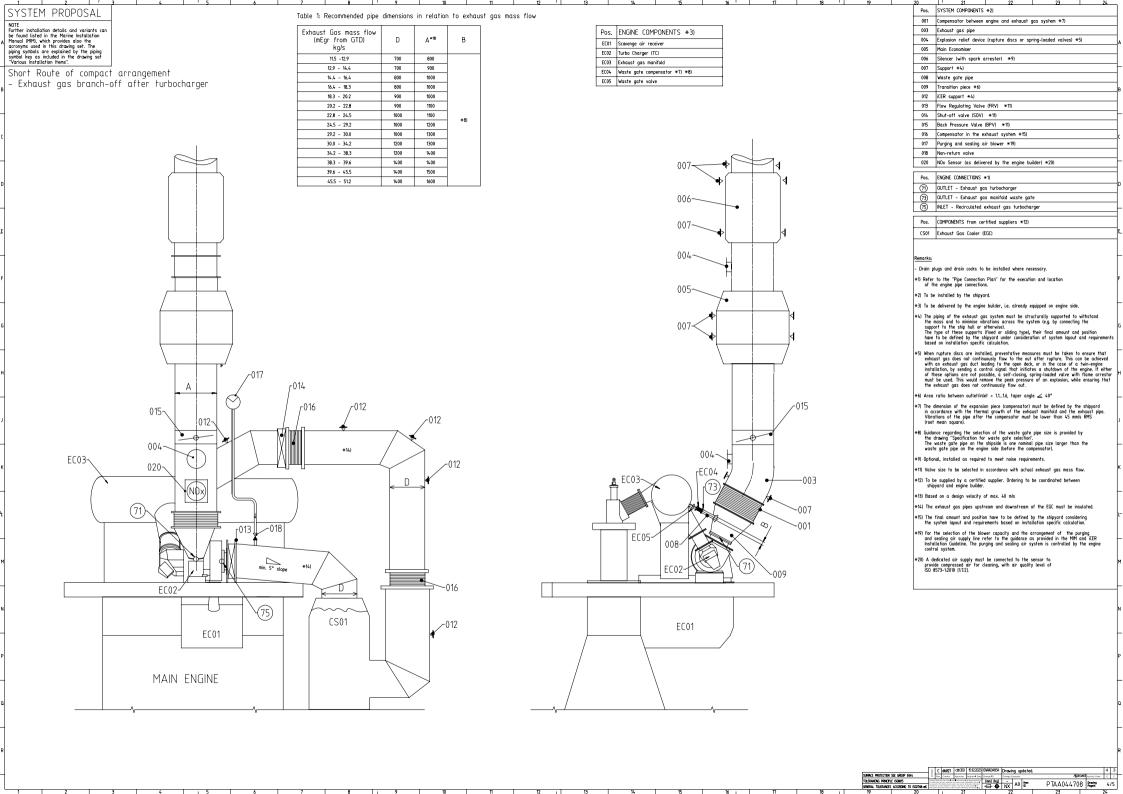
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		not : proje	shown in ect-specifi	the above c request,	table, then WinGD must	it may still be be contacted di	under de rectly.	velopmer	nt or no	t available. Fo	r further informa	ıtion or	in case of a			
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		area	, and the	design of	the subject-	-products is sub	ject to	regular	improven	ents, modifica	tions and change	s. Consed	quently, the publis ssions in this doci	her		
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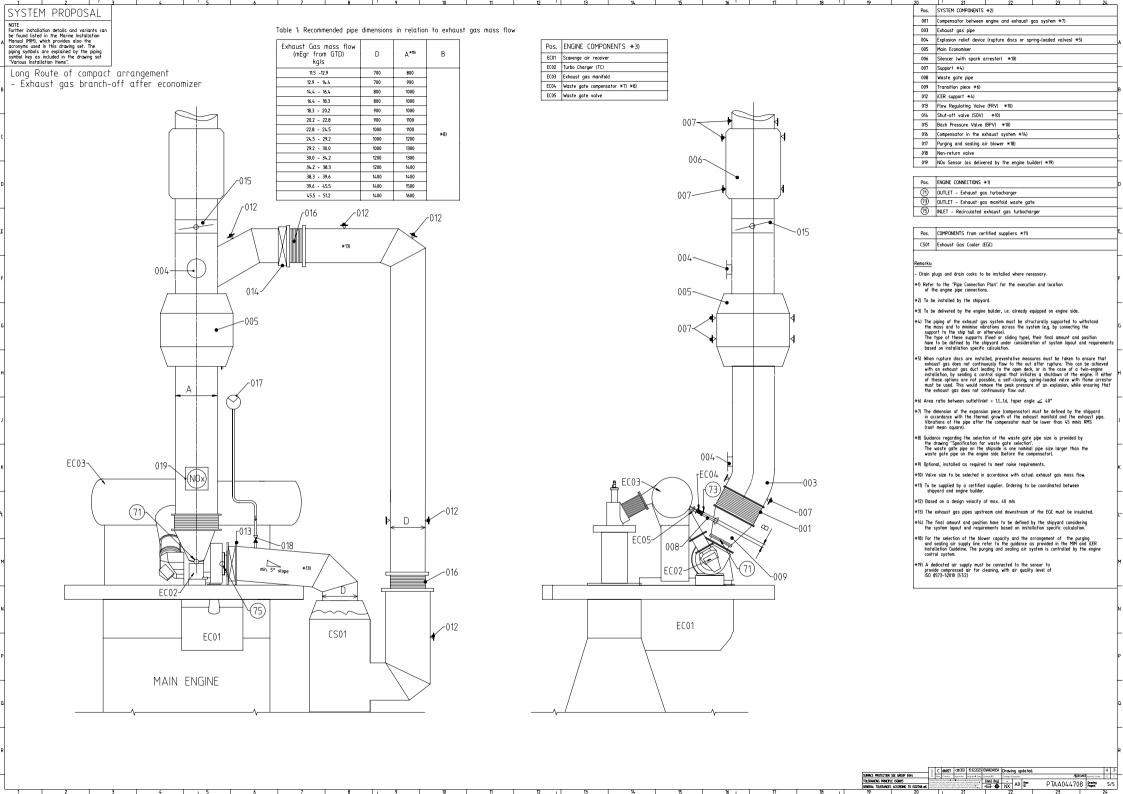
001	QTY	/ Item ID)	Item Name		Dimension	Standard-ID	Basic Material		V	Net Weight
	1	PTAA	044708	EXHAUST SY	STEM	with one turbocharger					0
002	1	PAAD	327310	SPECIFICATION	ON	0.0 (4.200)(4.200)				(0.001
003	1	DAAL	0139643	GUIDELINES							
000	•	Dr. v. c									
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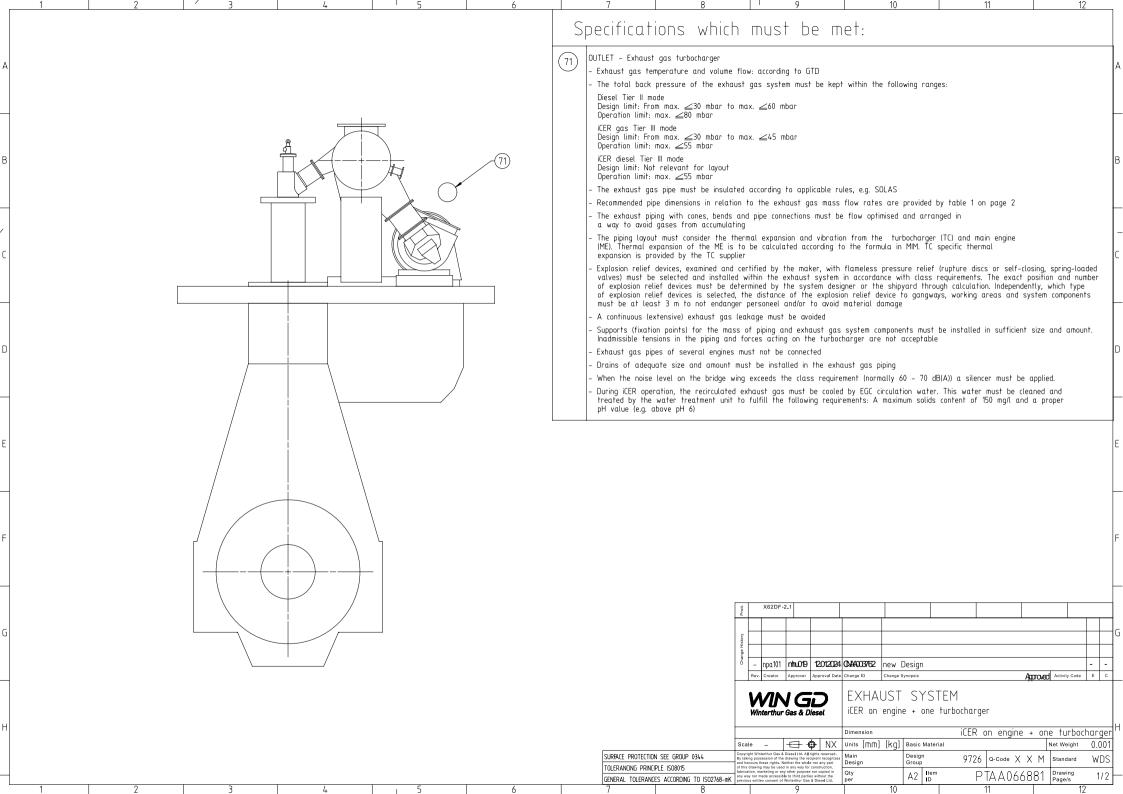


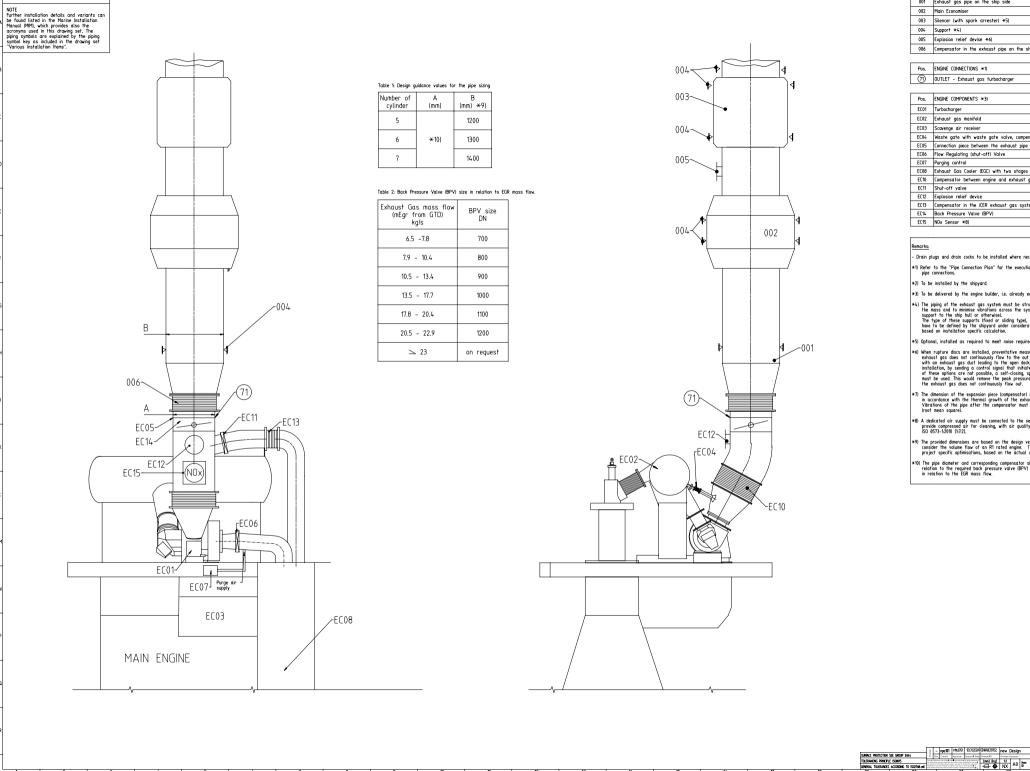






	QTY	Y Item ID		Item Name			Dimension	Standard-ID	Basic Material		1	Net Weight
1	1	PTAA)66881	EXHAUST SY	/STEM	iCER on engine + one turb	ocharner					0.001
2	1	DAAD	139643	iCER INSTALL	LATION GUIDELINE	•	oonargor					
_	'	Di ii io	100010									
g-			5,6,7,8 X62DF	2.1								
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			5,6,7,8 X62DF	2.1								
	-	npa101	5,6,7,8 X62DF	12.01.2024	CNAA003762	New MainDesign					-	-
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SYSTEM PROPOSAL

SYSTEM COMPONENTS *2) Pos. 001 Exhaust gas pipe on the ship side 002 Main Economiser Silencer (with spark arrester) *5) 004 Support *4) 005 Explosion relief devise *6) 006 Compensator in the exhaust pipe on the ship side *7) *10) Pos. ENGINE CONNECTIONS *1)

OUTLET -	Exhaust	gas	turbocharger

Pos.	ENGINE COMPONENTS *3)
EC01	Turbocharger
EC02	Exhaust gas manifold
EC03	Scavenge air receiver
EC04	Waste gate with waste gate valve, compensator and connection pipe
EC05	Connection piece between the exhaust pipe on engine side and on ship side
EC06	Flow Regulating (shut-off) Valve
EC07	Purging control
EC08	Exhaust Gas Cooler (EGC) with two stages
EC10	Compensator between engine and exhaust gas system
EC11	Shut-off valve
EC12	Explosion relief device
EC13	Compensator in the iCER exhaust gas system
EC14	Back Pressure Valve (BPV)
reer.	10.5

- Drain plugs and drain cocks to be installed where necessary.
- *1) Refer to the "Pipe Connection Plan" for the execution and location of the engine pipe connections.
- *2) To be installed by the shipyard.

NERAL TOLERANCES ACCORDING TO ISO2768-isK

- *3) To be delivered by the engine builder, i.e. already equipped on engine side.
- 4.) The piping of the enhant gas system must be structurally supported to withstand the point of the structure of the stru
- *5) Ontional installed as required to meet noise requirements.
- 46) When rupture discs are installed, preventative measures must be taken to ensure that exhaust gas does not continuously flow to the out after rupture. This can be achieved with an exhaust gas act leading to the open deck, or in the case of a bin-designe installation, by sending a control signal that initiates a shutdown of the origine. If either of these options are not possible, a self-closing, sympholoded value with finae arrestive must be used. This would remove the performance of an explosion, while ensuring that the exhaust gas does not continuously flow vol.
- #7) The dimension of the expansion piece (conpensator) must be defined by the shipyard in accordance with the thermal growth of the exhaust nonfold and the exhaust pipe. Variations of the pipe after the compensator must be lower than 45 mais RMS (not mean square).
- *8) A dedicated air supply must be connected to the sensor to provide compressed air for cleaning, with air quality level of ISO 8573-1:2010 [1:7:2].
- #9) The provided dimensions are based on the design velocity of max. 40 m/s and consider the volume flow of an R1 rated engine. They serve only as a proposal, project specific optimisations, based on the actual value in GTD, are possible.
- *10) The pipe diameter and corresponding compensator size must be selected in relation to the required back pressure valve (BPV) size, which is defined in table 2, in relation to the EGR mass flow.

Approved Access Co. C PTAA066881 Proving 2/2

SEQ NO	QTY	Item ID	Item Name Dimensio	Standard-I D	Basic Material	Net Weight
1	1	PTAA073625	EXHAUST SYSTEM with two turbocharger			0
2	1	PAAD327310	SPECIFICATION			0.001
3	1	DAAD139643	GUIDELINES			

Prod.		Į.	5,6,7,8 X62DF	-2.1						
History										
Change Hi										
Ç	-	npa101	mhu019	16.02.2024	CNAA004216	New MainDesign introduced			-	-
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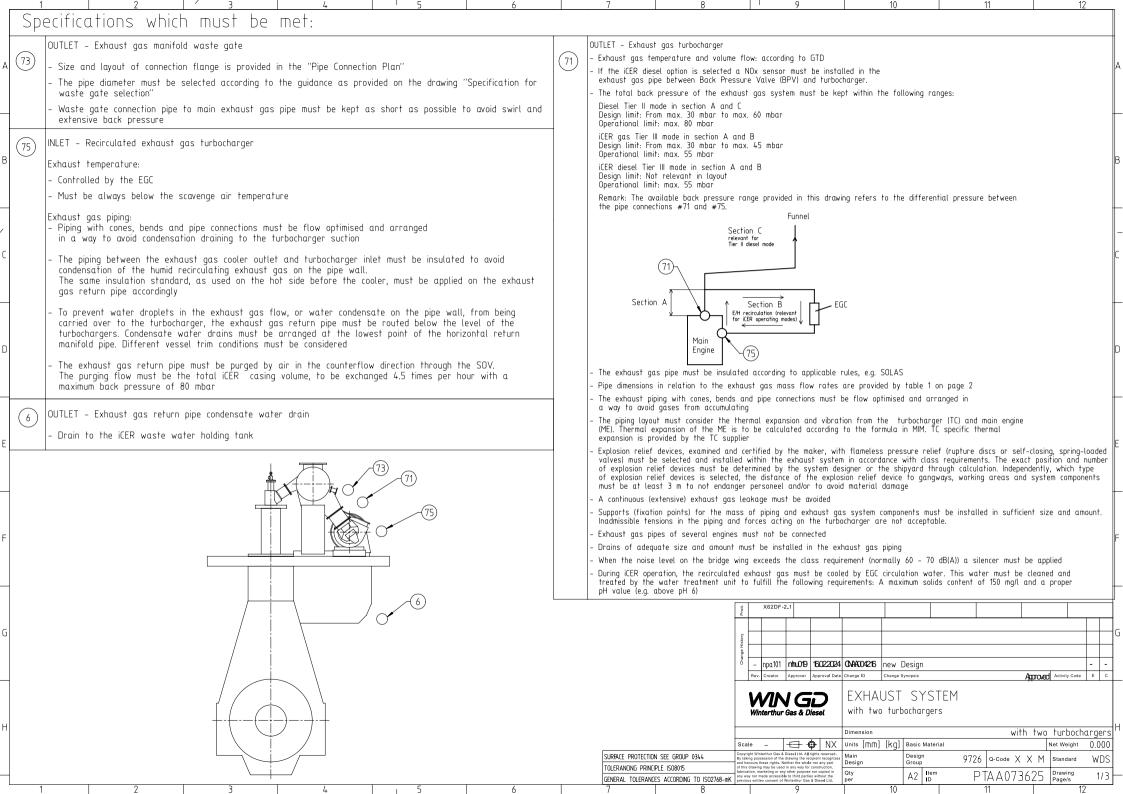


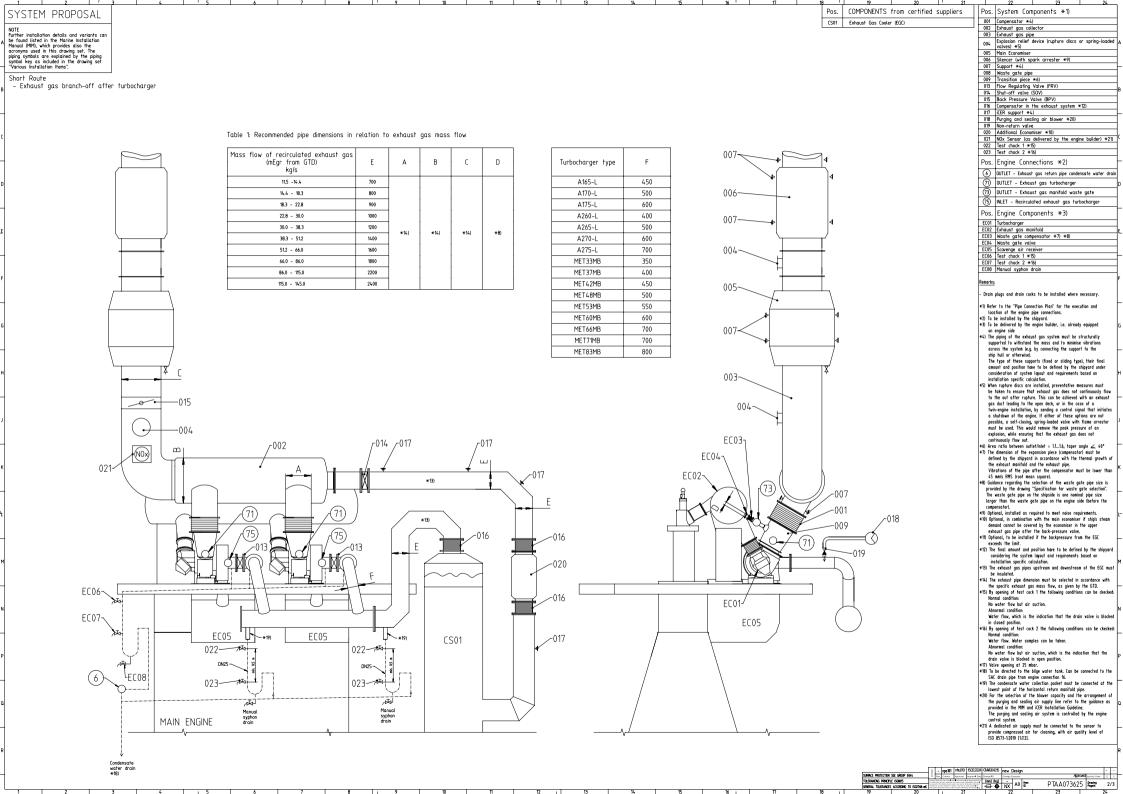
EXHAUST SYSTEM

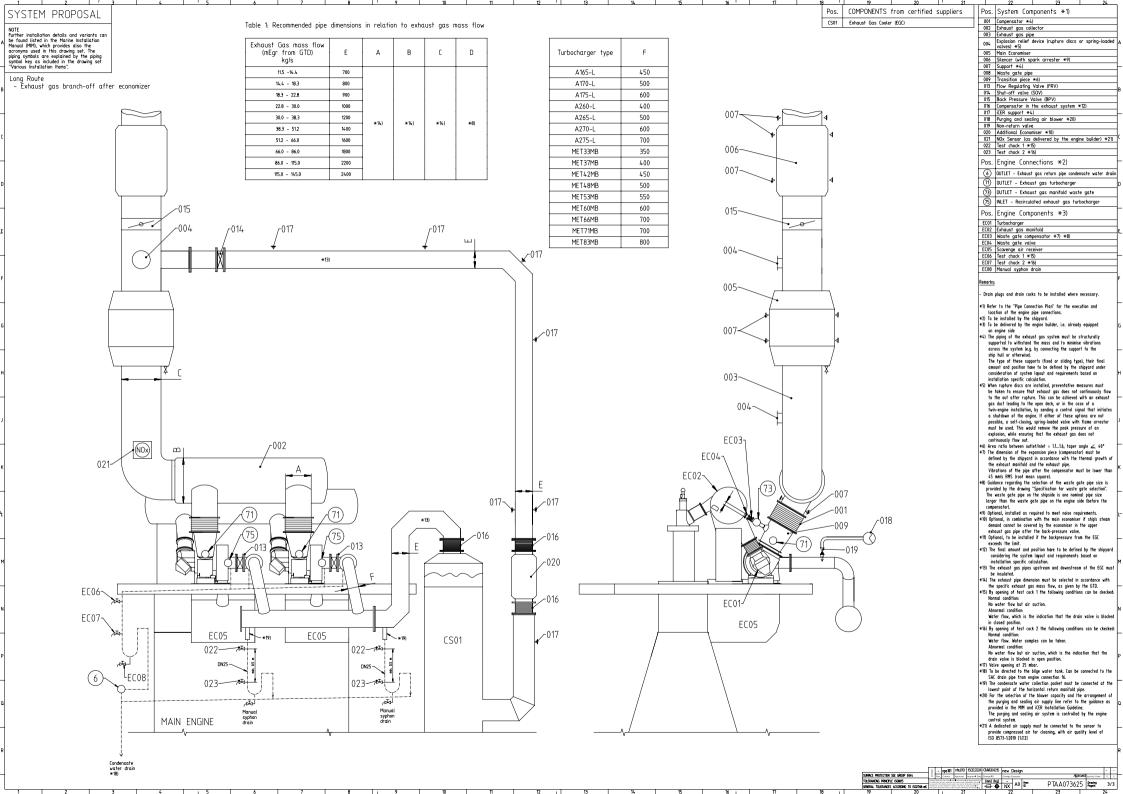
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Bill Of Material
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	Dimension								2TC
d. it	Units	[m] [kg]	Basic Mat	erial				Net Weight	0.001
10	Main Design	Yes	Design Gr	oup	9726	Q-Code	X X M	Standard	WDS
ı	Qty per	Engine	A4	Item ID	PTA	A07	73630	BOM Page/s	01/01



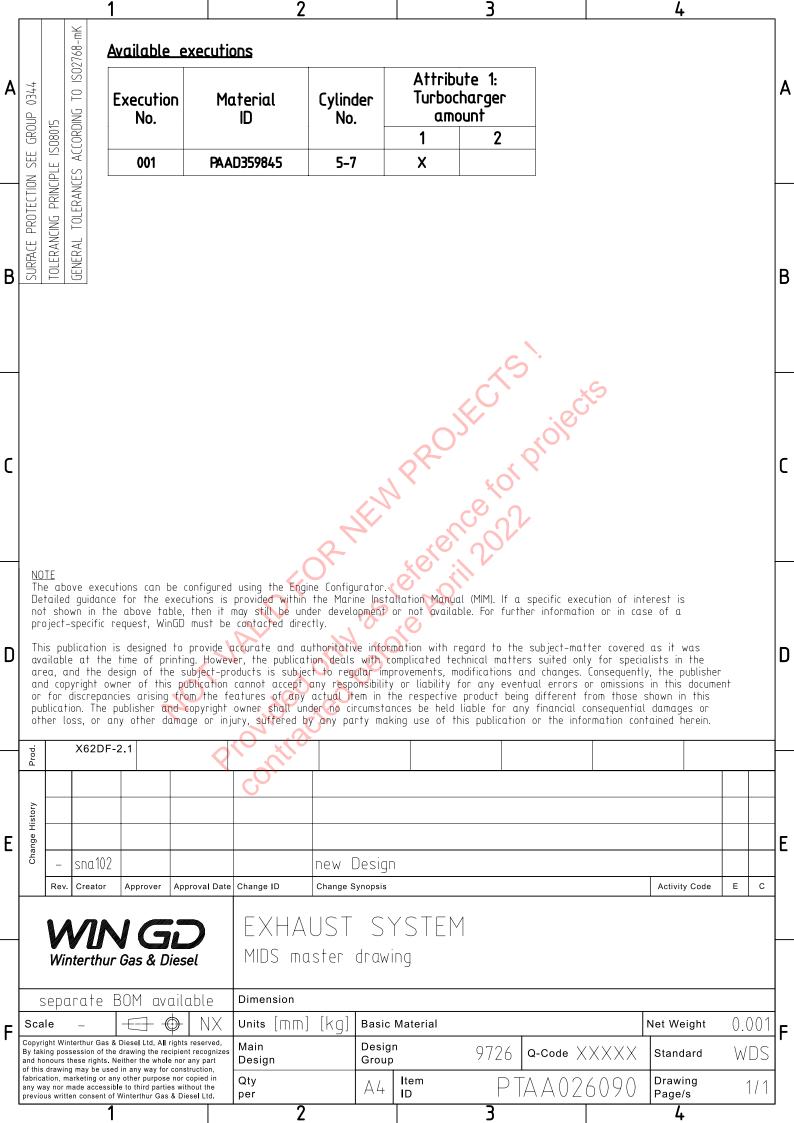




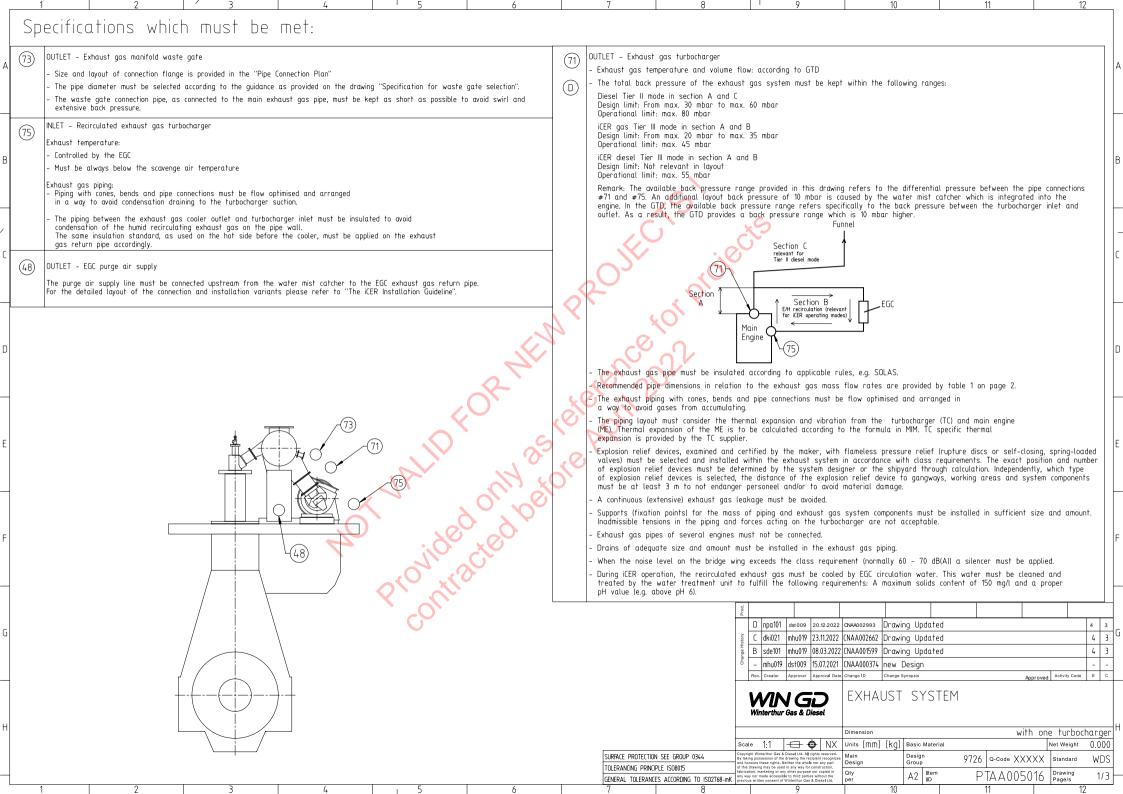
NOT VALID for new projects

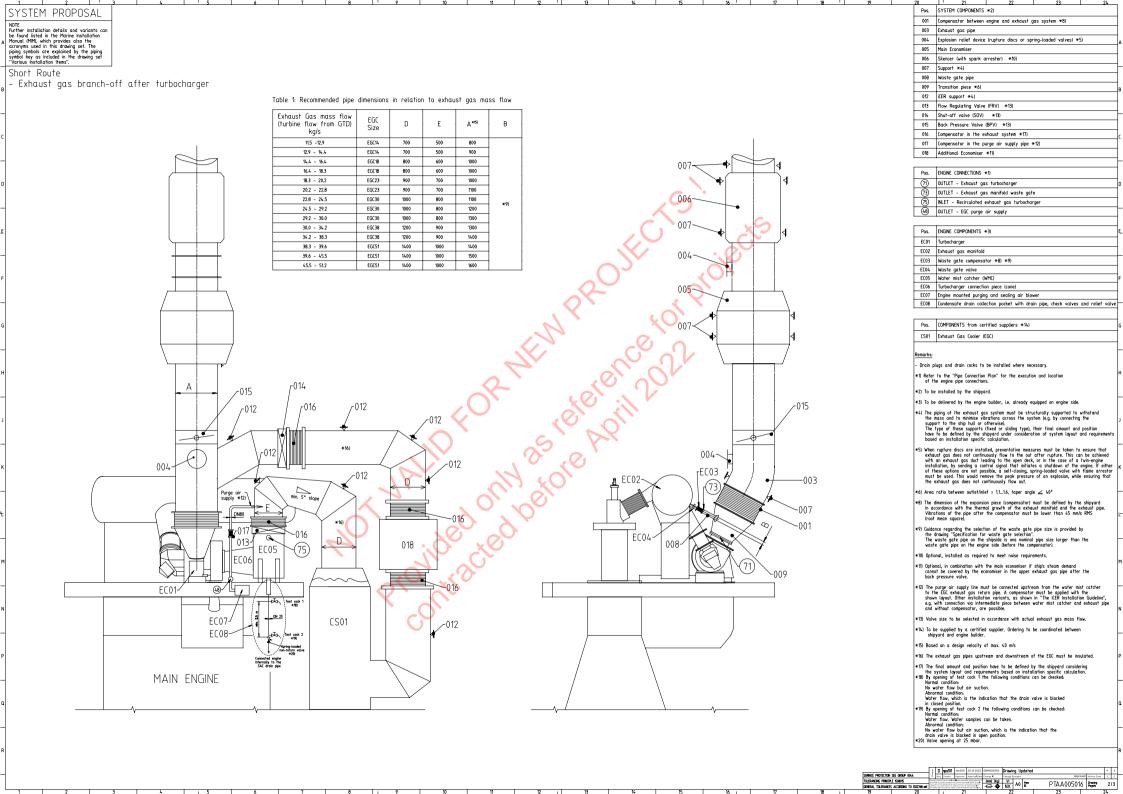
The following pages are provided only as reference for projects which had been contracted before April 2022

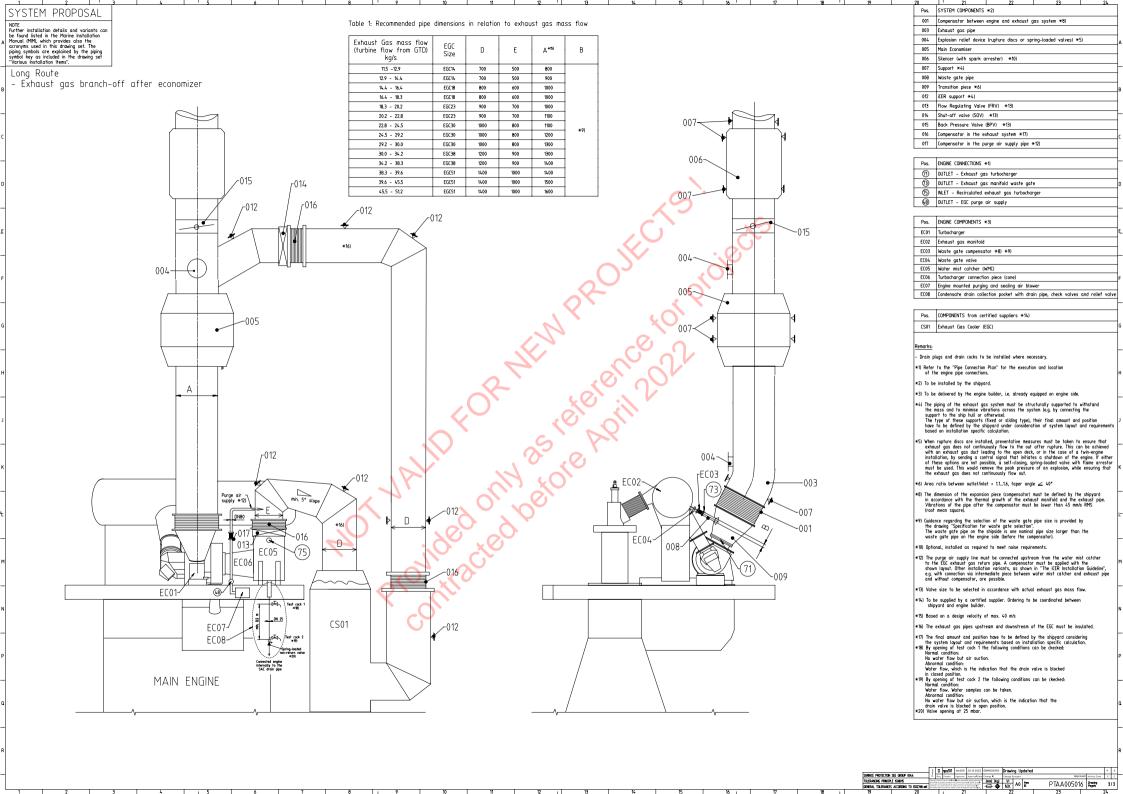
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NO	QTY	Item ID		Item Name		Dimension	Standard-ID	Basic Material		V	Ne Weigh
1	1	PTAA0	05016	Exhaust Syste	·m	with one turbocharger					0.00
2	1	PAAD3	327310	SPECIFICATION	ON	with one terboonarger				(0.00
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3	1	DAAD1	39043								
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MIDS - WinGD X62DF-2.1 - Exhaust System (DG9726)

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2020-12-10	DRAWING SET	First web upload
2021-02-08	DAAD132451 DAAD132303	Main and system drawings – new revision
2021-03-19	DAAD132303	System drawing – new revision
2021-07-19	PAAD359845 PTAA005016	Main and system drawings – new revision
2021-12-22	PTAA005016	System drawing – new revision
2022-03-10	PTAA005016	System drawing – new revision
2022-12-01	PTAA005016 PTAA044716	System drawing – new revision New drawing set as replacement of previous one - added
2022-12-01	PTAA005016 PTAA044708	System drawing – new revision
2023-03-27	PTAA044708	System drawing – new revision
2023-12-19	PTAA044708C	New revision
2024-01-15	PTAA066881- PTAA066882-	New execution
2024-02-21	PTAA073625_ PTAA073630_	New drawings

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