

1

2

3

4

### Available executions

Execution No.	Material ID
001	PTAA073708

#### NOTE

The above executions can be configured using the Engine Configurator. Detailed guidance for the executions is provided within the Marine Installation Manual (MIM). If a specific execution of interest is not shown in the above table, then it may still be under development or not available. For further information or in case of a project-specific request, WinGD must be contacted directly.

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Prod.	X62DF-S2.0								
Change History	A	npa101				Drawing updated			
	-	sna102	mhu019	30.06.2022	CNAA002126	new Design		-	-
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code	E	C

**WIN GD**  
Winterthur Gas & Diesel

LEAKAGE COLLECTION/WASHING SYS.  
MIDS master drawing

separate BOM available

Dimension

Scale	-		NX	Units [mm] [kg]	Basic Material	Net Weight	0.001		
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Qty per	A4	Item ID	PTAA023578		Drawing Page/s	1/1			

1

2

3

4

SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
1	1	PTAA073703	LEAKAGE COLLECTION/WASHING SYS.				0.001

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Prod.	5,6,7,8 X62DF-S2.0						
Change History	B	npa101	mhu019	23.08.2024	CNAA006157	Drawing updated	4 3
	A	sde101	mhu019	03.06.2024	CNAA005807	Drawing update	4 3
	-	npa101	mhu019	16.02.2024	CNAA004270	New MainDesign	- -
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved Activity Code E C

	<b>LEAKAGE COLLECTION/WASHING SYS.</b>
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<b>Bill Of Material</b>		Dimension					
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	Main Design	Yes	Design Group		9724	Q-Code	X X M Standard WDS
	Qty per	Engine	A4	Item ID	<b>PTAA073708</b>		BOM Page/s

SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
001	1	107.425.369.500	SLUDGE OIL TRAP				0.001

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Prod.	X62DF-S2.0								
Change History	B	npa101	mhu019	23.08.2024	CNAA006157	Drawing updated	4	3	
	A	sde101	mhu019	03.06.2024	CNAA005807	Drawing update	4	3	
	-	npa101	mhu019	16.02.2024	CNAA004270	new Design	-	-	
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved	Activity Code	E C

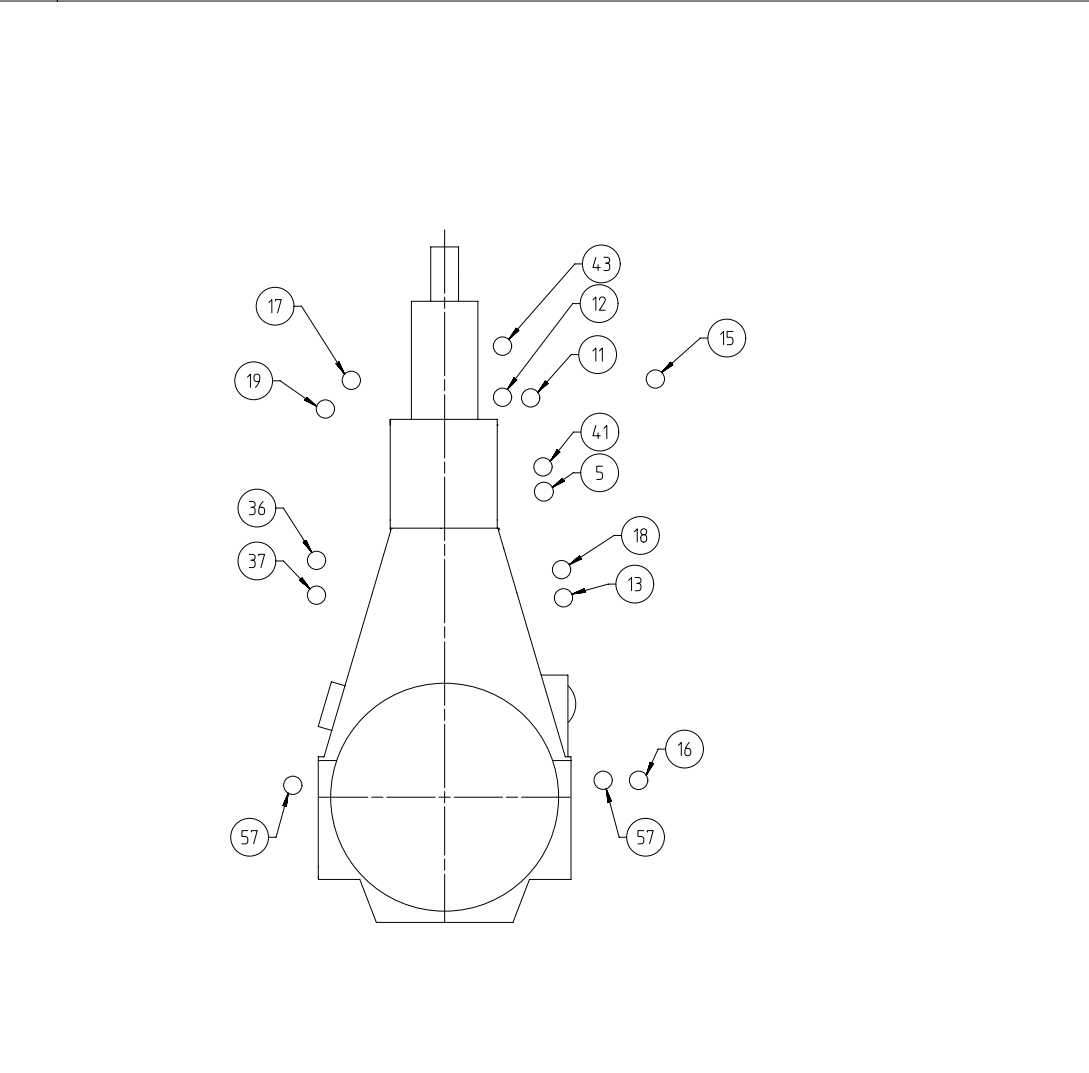
<b>WIN GD</b>	<b>LEAKAGE COLLECTION/WASHING SYS. TC 1</b>
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<b>Bill Of Material</b>		Dimension						
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	Main Design	Design Group		9724	Q-Code	X X M	Standard	WDS
	Qty per	A4	Item ID	<b>PTAA073703</b>		BOM Page/s	01/01	

1 2 3 4 5 6 7 8 9 10 11 12

SPECIFICATION which must be met:

37	OUTLET - Leakage oil gland box - Gravity flow to sludge tank or appropriate tank
41	OUTLET - Venting crankcase - Venting to funnel - Must not be connected to other venting pipes
43	OUTLET - Venting turbocharger - Venting to funnel - Minimum inclination according to TC suppliers specification - Must not be connected to other venting pipes
57	OUTLET - Various leakages - Gravity flow to sludge tank or appropriate tank

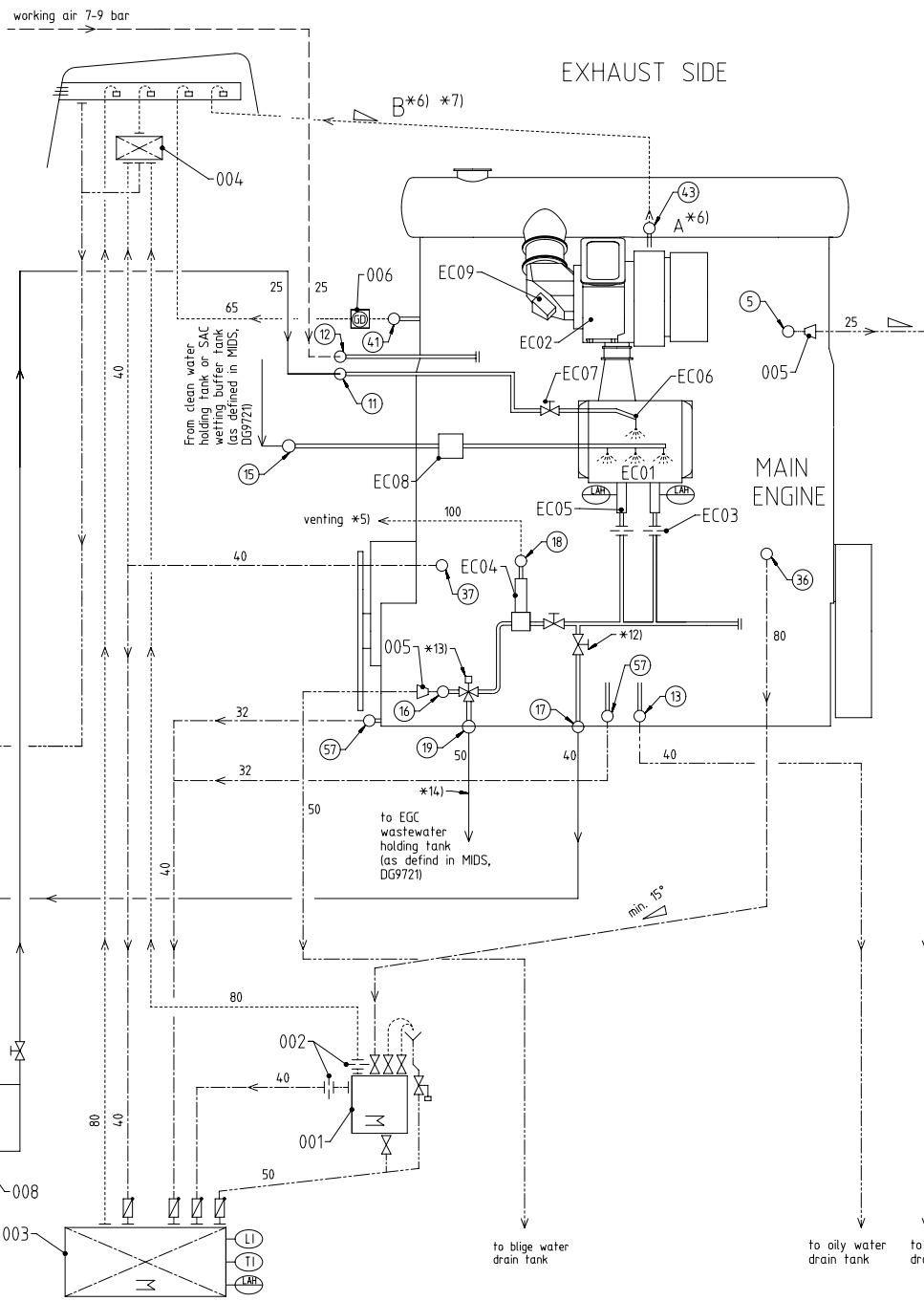


5	OUTLET - Cylinder cooling water drain - Gravity flow to cooling water drain tank or appropriate tank
11	INLET - SAC washing water - Washing water supply from an external washing system, which must be installed on the ship side - Washing water properties: Fresh water mixed with a chemical washing agent - Mixing ratio according to chemical washing agent suppliers specification - Washing water supply pressure: 2.5 bar - Washing water temperature: 50 °C - 60 °C - Washing water pump circulation rate: 3.8 m³/h
12	INLET - Air for turbocharger cleaning - Working air, supply pressure: 7 - 9 bar
13	OUTLET - Oily water from scavenge air receiver - Gravity flow to oily water tank or appropriate tank
15	INLET - SAC wetting water - Wetting water supply: From clean water holding tank or SAC wetting buffer tank - Wetting water supply pressure: max. 10 bar - Wetting water circulation rate: 500 - 1000 l/h per SAC
16	OUTLET - SAC condensate water - Gravity flow to bilge water tank or appropriate tank
17	OUTLET - SAC washing water - During SAC cleaning to the chemical washing water circulation tank, which is part of the external washing system, as installed on the ship side
18	OUTLET - SAC venting - Free flow outside of engine room
19	OUTLET - SAC condensate water, iCER - To EGC wastewater holding tank during iCER operation - The system components downstream of this connection must be made of stainless steel
36	OUTLET - Dirty oil piston underside - Flow with SAC pressure to sludge oil trap or appropriate arrangement - Min. inclination of drain pipe: 15°

Prod.	X62DF-S2.0												
Change History	B	npa101	mhu09	23.08.2024	CNA00657	Drawing updated			4	3			
	A	sde101	mhu019	03.06.2024	CNAA005807	Drawing update			4	3			
	-	npa101	mhu019	16.02.2024	CNAA004270	new Design			-	-			
Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved		Activity Code	E	G			
<b>WINGD</b>						LEAKAGE COLLECTION/WASHING SYS. TC 1							
separate BOM available						Dimension							
Scale	-		NX	Units [mm] [kg]	Basic Material	Net Weight		0.001					
SURFACE PROTECTION SEE GROUP 0344						Main Design		Design Group	9724	Q-Code X X M	Standard	WDS	
TOLERANCING PRINCIPLE ISO8015						Qty per		Item ID	A2	PTAA073703	Drawing Page/s	1/2	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK						Copyright WingD Ltd. All rights reserved. By taking possession of the drawing the recipient recognizes and warrants these rights, neither the whole nor any part of this drawing may be used in any way for construction, fabrication, marketing or any other purpose nor copied in any way nor made accessible to third parties without the previous written consent of WingD Ltd.							

# SYSTEM PROPOSAL

**NOTE**  
Further installation details and variants can be found listed in the Marine Installation Manual (MIM), which provides also the acronyms used in this drawing set. The piping symbols are explained by the piping symbol key as included in the drawing set "Various Installation Items".



Turbocharger type	A**	B**	Min. Inclination
1 x A170-L	65	65	≥ 5°
1 x A175-L	65	65	≥ 5°
1 x A180-L	80	80	≥ 5°
1 x A185-L	80	80	≥ 5°
1 x A270-L	65	65	≥ 5°
1 x A275-L	65	65	≥ 5°
1 x A280-L	80	80	≥ 5°
1 x MET53MB	65	65	≥ 3°
1 x MET60MB	80	80	≥ 3°
1 x MET66MB	80	80	≥ 3°
1 x MET71MB	80	80	≥ 3°
1 x MET83MB	100	100	≥ 3°
2 x A165-L	65	80	≥ 5°
2 x A170-L	65	100	≥ 5°
2 x A175-L	65	100	≥ 5°
2 x A265-L	65	80	≥ 5°
2 x A270-L	65	100	≥ 5°
2 x MET42MB	50	65	≥ 3°
2 x MET48MB	65	80	≥ 3°
2 x MET53MB	65	80	≥ 3°
2 x MET60MB	80	100	≥ 3°

Pos.	SYSTEM COMPONENTS *1)
001	Sludge oil trap (according to separate drawing)
002	Throttling disc (size shown on separate sludge oil trap drawing)
003	Sludge or appropriate tank
004	Air vent manifold
005	Transition piece (adaptor) *9)
006	Gas detector *11)
007	Chemical washing water circulation tank *15)
008	Chemical washing water circulation pump
009	Chemical washing water strainer (0.5-1.0 mm)

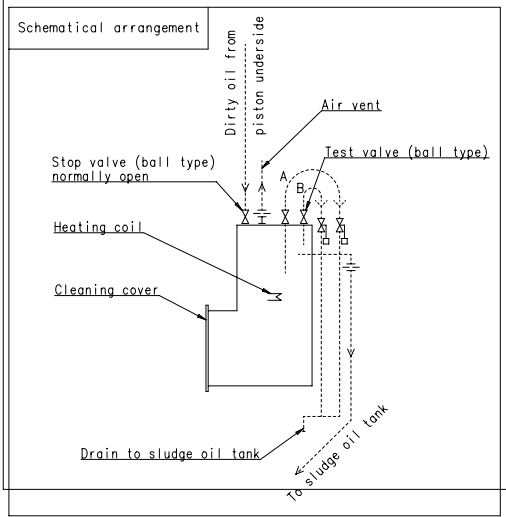
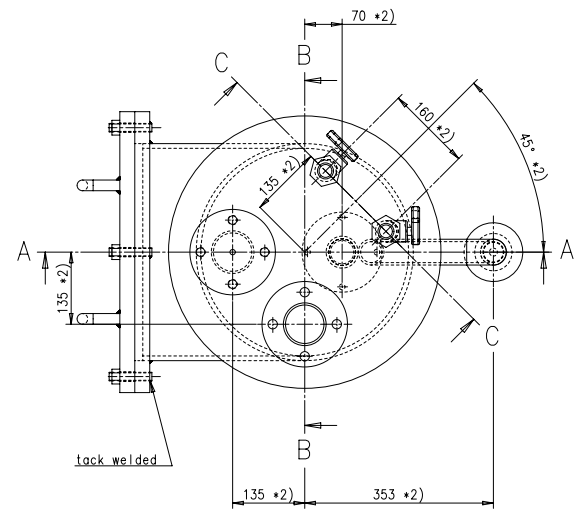
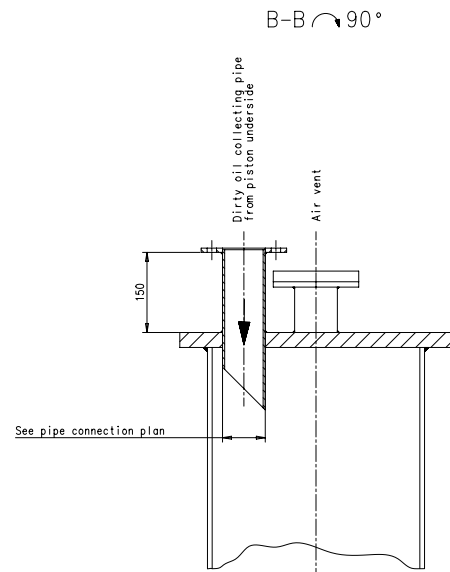
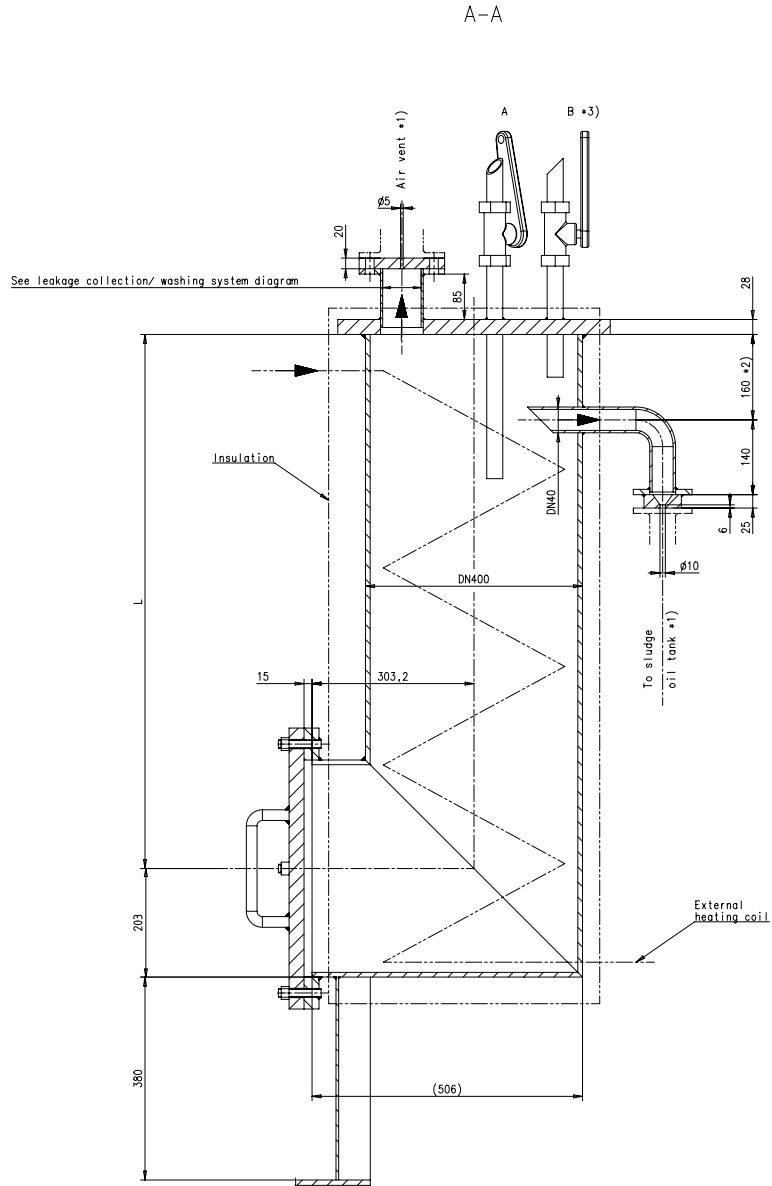
Pos.	ENGINE CONNECTIONS *2)
5	OUTLET - Cylinder cooling water drain
11	INLET - SAC washing water
12	INLET - Air for turbocharger cleaning
13	OUTLET - Oily water from scavenge air receiver *10)
15	INLET - SAC wetting water
16	OUTLET - SAC condensate water *4) *10) *14)
17	OUTLET - SAC washing water *12)
18	OUTLET - SAC venting *5)
19	OUTLET - SAC condensate water, iCER *13)
36	OUTLET - Dirty oil piston underside
37	OUTLET - Leakage oil gland box
41	OUTLET - Venting crankcase
43	OUTLET - Venting turbocharger
57	OUTLET - Various leakages

Pos.	ENGINE COMPONENTS *3)
EC01	Scavenge Air Cooler (SAC)
EC02	Turbocharger (TC)
EC03	Throttling disc
EC04	Venting Unit
EC05	Condensate drain unit
EC06	SAC washing water spray nozzle
EC07	SAC washing water isolating valve
EC08	SAC wetting valve unit
EC09	TC dry cleaning device

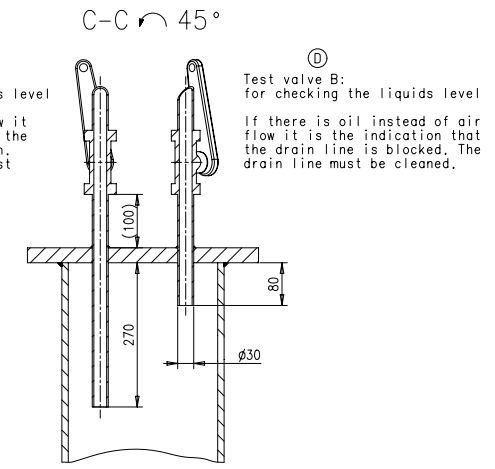
**Remarks**

- Air vent and drain pipes must be fully functional at all inclination angles of the ship at which the engine must be operational.
- \*1) To be installed by the shipyard.
- \*2) Refer to the "Pipe Connection Plan" for the execution and location of the engine pipe connections.
- \*3) To be delivered by the engine manufacturer, i.e. already equipped on engine side.
- \*4) The amount of condensate water drained off after the SAC depends on the relative air humidity and the scavenge air temperature before and after the SAC. During iCER operation, the SAC drain water amount is significantly increased. The specific drain amount is provided by the GTB.
- \*5) Free flow venting outside of engine room.
- \*6) Depends on turbocharger type, see table on the left side.
- \*7) Vent pipe diameter as per turbocharger requirements.
- \*8) Vent pipe diameter of common collection pipe.
- \*9) Installed as required (check with the Pipe Connection Plan).
- \*10) Drain connection 13 and 16 are with air flow from scavenging system. Both drain lines must be kept separated and directed to separate tanks. The tanks must be designed with sufficiently sized vents to prevent excessive pressure in the tanks. The drain amount depends on the ambient conditions.
- \*11) Optional, to be installed if requested by the flag state and/or class to achieve IGC compliance.
- \*12) Switching to the separate washing water collection tank must be carried out for SAC cleaning.
- \*13) While the iCER is in operation, drain to the EGC waste water holding tank. The solenoid valve is actuated by a signal from the "Engine Control System".
- \*14) The system components from the iCER bleed-off water outlet must be made of stainless steel.
- \*15) Washing water is heated to between 50 and 60 °C by a heating coil. Recommended washing water circulation tank capacity: 0.4 m³

- Compressed air pipes
- Air vent pipes
- Drain & overflow pipes
- Dirty oil drain pipes
- Washing water pipes
- Pipes on engine
- Pipe connections



Test valve A:  
for checking the solids level  
If there is no oil flow it is the indication that the solid level is too high. The sludge oil trap must be cleaned.



Remarks:

- \*1) Orifice to be as shown
- \*2) Observe location of pipes with regard to each other
- \*3) Optional - Alternatives, such as level sensors, are possible

Details:

	L = 1000	L = 550
Cylinder bore size:	55-96	35-54
Capacity:	150 l	100 l
Working pressure:	4 bar	
Testing pressure:	6 bar	
Temperature:	80°C	

Proj.	CX40DF	R1=rev50-D	R2=rev50-T-D V1	R1=rev58T-E	R1=rev80-L	R1=rev82	CR4HMM-PILOT	X33-B
Rev.	01	30.01.2022	04A003373					
Change History	D sde01	mhu019	10.09.2018	EAA0089439	Legacy information. See corresponding ChangeNotice			4 -
	B dki021	mhu019	16.07.2017	EAA0087849	Legacy information. See corresponding ChangeNotice			4 -
	-	WinGD	jba029	13.11.2009				-
Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approval	Activity Code	E C

<b>WINGD</b> Winterthur Gas & Diesel		<b>SLUDGE OIL TRAP</b>	
Scale	1:5	Units [mm] [kg]	Basic Material
Dimension	NX		
Net Weight	0.001		

SURFACE PROTECTION SEE GROUP 0344	Copyright Winterthur Gas & Diesel Ltd. All rights reserved. For legal purposes only. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the prior written consent of Winterthur Gas & Diesel Ltd.	Main Design	Design Group	9724	Q-Code XXXXX	Standard	WDS
GENERAL TOLERANCES ACCORDING TO ISO2768-MK		Rev. per	Form ID	A1	107.4.25.369.500	Drawing Page	1/1



**Available executions**

Execution No.	Material ID	Cylinder No.	Attribute 1: Turbocharger amount	
			1 TC	2 TC
001	PTAA023579	5-7	X	
002	PTAA028607	7-8		X

SURFACE PROTECTION SEE GROUP 03/44  
 TOLERANCING PRINCIPLE ISO8015  
 GENERAL TOLERANCES ACCORDING TO ISO2768-mK

**NOTE**

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Prod.									
Change History									
	-	sna102				new Design			
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code	E	C



LEAKAGE COLLECTION/WASHING SYS.  
 MIDS master drawing

separate BOM available

Dimension

Scale	-		NX	Units [mm] [kg]	Basic Material	Net Weight	0.001
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Qty per	A4	Item ID	PTAA023578	Drawing Page/s	1/1		



SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
1	1	PTAA023184	LEAKAGE COLLECTION/WASHING SYS.				0.001

NOT VALID FOR NEW PROJECTS!  
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 contracted before April 2022

Proc.	5,6,7 X62DF-S2.0							
Change History								
	-	sna102	mhu019	16.03.2022	CNAA001361	Main Design/Drawing Introduced	-	-
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code	E C

	LEAKAGE COLLECTION/WASHING SYS.
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<b>Bill Of Material</b>		Dimension							
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	Main Design	Yes	Design Group		9724	Q-Code	XXXXX	Standard	WDS
	Qty per	Engine	A4	Item ID	PTAA023579		BOM Page/s	01/01	

SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
001	1	107.425.369.500	SLUDGE OIL TRAP				0.001

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 Provided only as reference for projects  
 contracted before April 2022

Prod.	X62DF-S2.0								
Change History									
	-	sde101	mhu019	16.03.2022	CNA001361	new Design		-	-
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved	Activity Code	E C

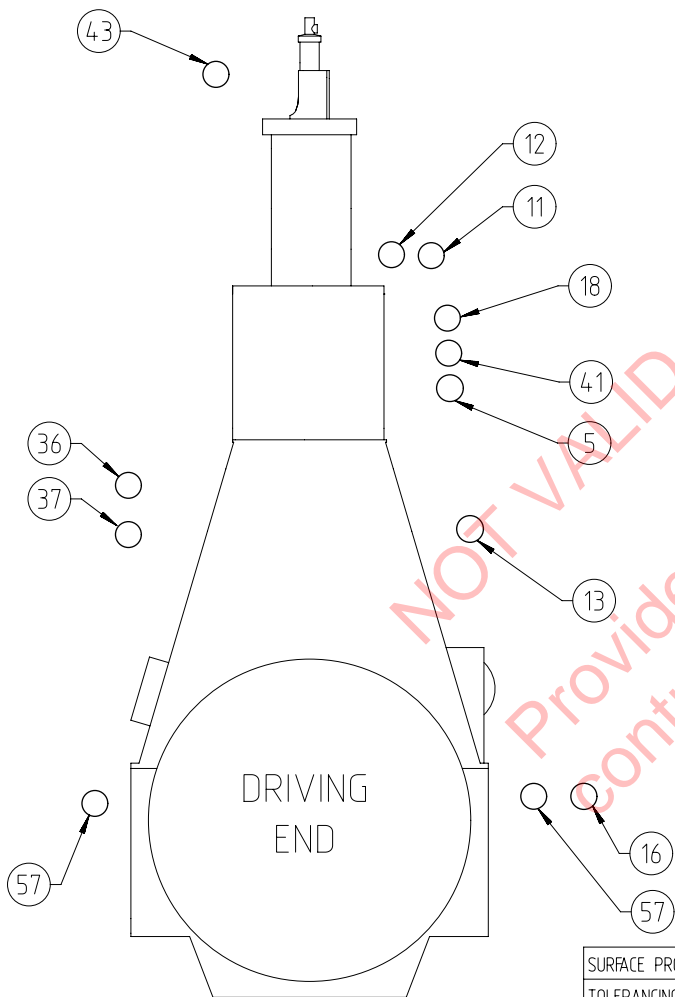


## LEAKAGE COLLECTION/WASHING SYS.

<b>Bill Of Material</b>			Dimension	
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			Basic Material	Net Weight
			9724	0.001
			Q-Code	XXXXX
			Standard	WDS
			Design Group	
			Qty per	
			A4	
			Item ID	
			PTAA023184	
			BOM Page/s	01/01

SPECIFICATION which must be met:

(43)	OUTLET - Venting turbocharger - Venting to funnel - Minimum inclination according to TC suppliers specification - Must not be connected to other venting pipes.
(57)	OUTLET - Various leakages - Gravity flow to sludge tank or appropriate tank.



(5)	OUTLET - Cylinder cooling water drain. - Gravity flow to cooling water drain tank or appropriate tank.
(11)	INLET - Washing water SAC - From freshwater hydrophore system
(12)	INLET - Air for cleaning plants TC and SAC - Working air, supply pressure: 7-9 bar
(13)	OUTLET - Oily water from scavenge air receiver - Gravity flow to oily water tank or appropriate tank.
(16)	OUTLET - SAC condensate water - Gravity flow to bilge water tank or washing water collection tank or to the EGC bleed-off line depending on the operation mode. - The system components downstream of this connection until the pH-neutralisation dosing unit must be designed for low pH operation.
(18)	OUTLET - SAC venting - Free flow outside of engine room
(36)	OUTLET - Dirty oil piston underside - Flow with SAC pressure to sludge oil trap or appropriate arrangement. - Min. inclination of drain pipe: 15°
(37)	OUTLET - Leakage oil gland box - Gravity flow to sludge tank or appropriate tank.
(41)	OUTLET - Venting crankcase - Venting to funnel - Must not be connected to other venting pipes.

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Contracted before April 2022

Prod.																				
Change History																				
	-	sde101	mhu019	16.03.2022	QNAA001361	new Design					-	-								
Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis					Approved	Activity Code	E	C							
<b>WINGD</b> Winterthur Gas & Diesel		LEAKAGE COLLECTION/WASHING SYS.																		
separate BOM available					Dimension															
Scale	-		NX	Units [mm] [kg]	Basic Material							Net Weight					0.001			
Main Design				Design Group		9724		Q-Code		XXXXXX			Standard		WDS					
Qty per				A3		Item ID		PTAA023184					Drawing Page/s		1/2					

SURFACE PROTECTION SEE GROUP 0344  
TOLERANCING PRINCIPLE ISO8015  
GENERAL TOLERANCES ACCORDING TO ISO2768-mK


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SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
1	1	PTAA028569	LEAKAGE COLLECTION/WASHING SYS.				0.001

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 Provided only as reference for projects  
 contracted before April 2022

Proc.	7,8 X62DF-S2.0							
Change History								
	-	sde101	mhu019	16.03.2022	CNAA001361	Main Design/Drawing Introduced	-	-
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code	E C


	LEAKAGE COLLECTION/WASHING SYS.
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Bill Of Material		Dimension							
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	Main Design	Yes	Design Group		9724	Q-Code	XXXXX	Standard	WDS
	Qty per	Engine	A4	Item ID	PTAA028607		BOM Page/s	01/01	

SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
1	1	107.425.369.500	SLUDGE OIL TRAP				0.001

NOT VALID FOR NEW PROJECTS!  
 Provided only as reference for projects  
 contracted before April 2022

Prod.	X62DF-S2.0								
Change History									
	-	sde101	mhu019	16.03.2022	CNA001361	new Design		-	-
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved	Activity Code	E C

	LEAKAGE COLLECTION/WASHING SYS.
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<b>Bill Of Material</b>		Dimension	
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	Main Design	Design Group	9724 Q-Code XXXXX Standard WDS
	Qty per	A4 Item ID	PTAA028569 BOM Page/s 01/01
			Net Weight 0.001

1 2 3 4 5 6 7 8

SPECIFICATION which must be met:

A

④3	OUTLET - Venting turbocharger - Venting to funnel - Minimum inclination according to TC suppliers specification - Must not be connected to other venting pipes.
⑤7	OUTLET - Various leakages - Gravity flow to sludge tank or appropriate tank.

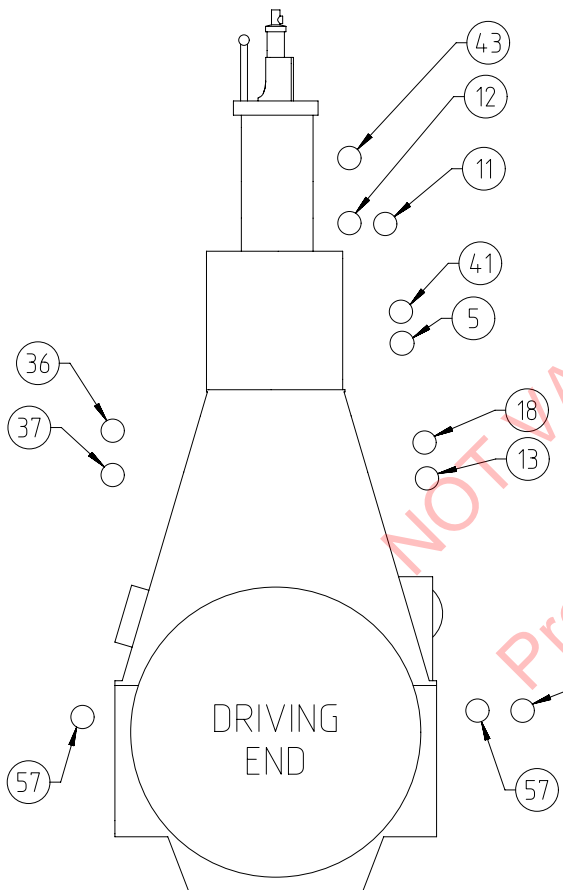
A

⑤	OUTLET - Cylinder cooling water drain. - Gravity flow to cooling water drain tank or appropriate tank.
①1	INLET - Washing water SAC - From freshwater hydrophore system
①2	INLET - Air for cleaning plants TC and SAC - Working air, supply pressure: 7-9 bar
①3	OUTLET - Oily water from scavenge air receiver - Gravity flow to oily water tank or appropriate tank.
①6	OUTLET - SAC condensate water - Gravity flow to bilge water tank or washing water collection tank or to the EGC bleed-off line depending on the operation mode. - The system components downstream of this connection until the pH-neutralisation dosing unit must be designed for low pH operation.
①8	OUTLET - SAC venting - Free flow outside of engine room
③6	OUTLET - Dirty oil piston underside - Flow with SAC pressure to sludge oil trap or appropriate arrangement. - Min. inclination of drain pipe: 15°
③7	OUTLET - Leakage oil gland box - Gravity flow to sludge tank or appropriate tank.
④1	OUTLET - Venting crankcase - Venting to funnel - Must not be connected to other venting pipes.

B

C

D



NOT VALID FOR NEW PROJECTS  
Provided only as reference  
Contracted before April 2022

Prod.	X62DF-S2.0											
Change History												
	-	sde101	mhu019	16.03.2022	QNA001361	new Design				-	-	
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis		Approved	Activity Code	E	C	
						LEAKAGE COLLECTION/WASHING SYS.						
separate BOM available						Dimension						
Scale	-		NX	Units [mm] [kg]	Basic Material			Net Weight 0.001				
SURFACE PROTECTION SEE GROUP 0344 TOLERANCING PRINCIPLE ISO8015 GENERAL TOLERANCES ACCORDING TO ISO2768-mK				Copyright Winterthur Gas & Diesel Ltd. All rights reserved. By taking possession of the drawing the recipient recognizes and honours these rights. Neither the whole nor any part of this drawing may be used in any way for construction, fabrication, marketing or any other purpose not copied in any way nor made accessible to third parties without the previous written consent of Winterthur Gas & Diesel Ltd.		Main Design	Design Group	9724	Q-Code	XXXXXX	Standard	WDS
Qty per	A3		Item ID	PTAA028569			Drawing Page/s	1/2				

F

# SYSTEM PROPOSAL

**NOTE**  
Further installation details and variants can be found listed in the Marine Installation Manual (MIM), which provides also the acronyms used in this drawing set. The piping symbols are explained by the piping symbol key as included in the drawing set "Various Installation Items".

Turbocharger type	A**)	B**)	Min. Inclination
2x A165-L	65	80	≥ 5°
2x A170-L	65	100	≥ 5°
2x A265-L	65	80	≥ 5°
2x A270-L	65	100	≥ 5°
2x MET42MB	50	65	≥ 3°
2x MET48MB	65	80	≥ 3°
2x MET53MB	65	80	≥ 3°
2x MET37MBII	50	65	≥ 3°
2x MET42MBII	50	65	≥ 3°
2x MET48MBII	65	80	≥ 3°

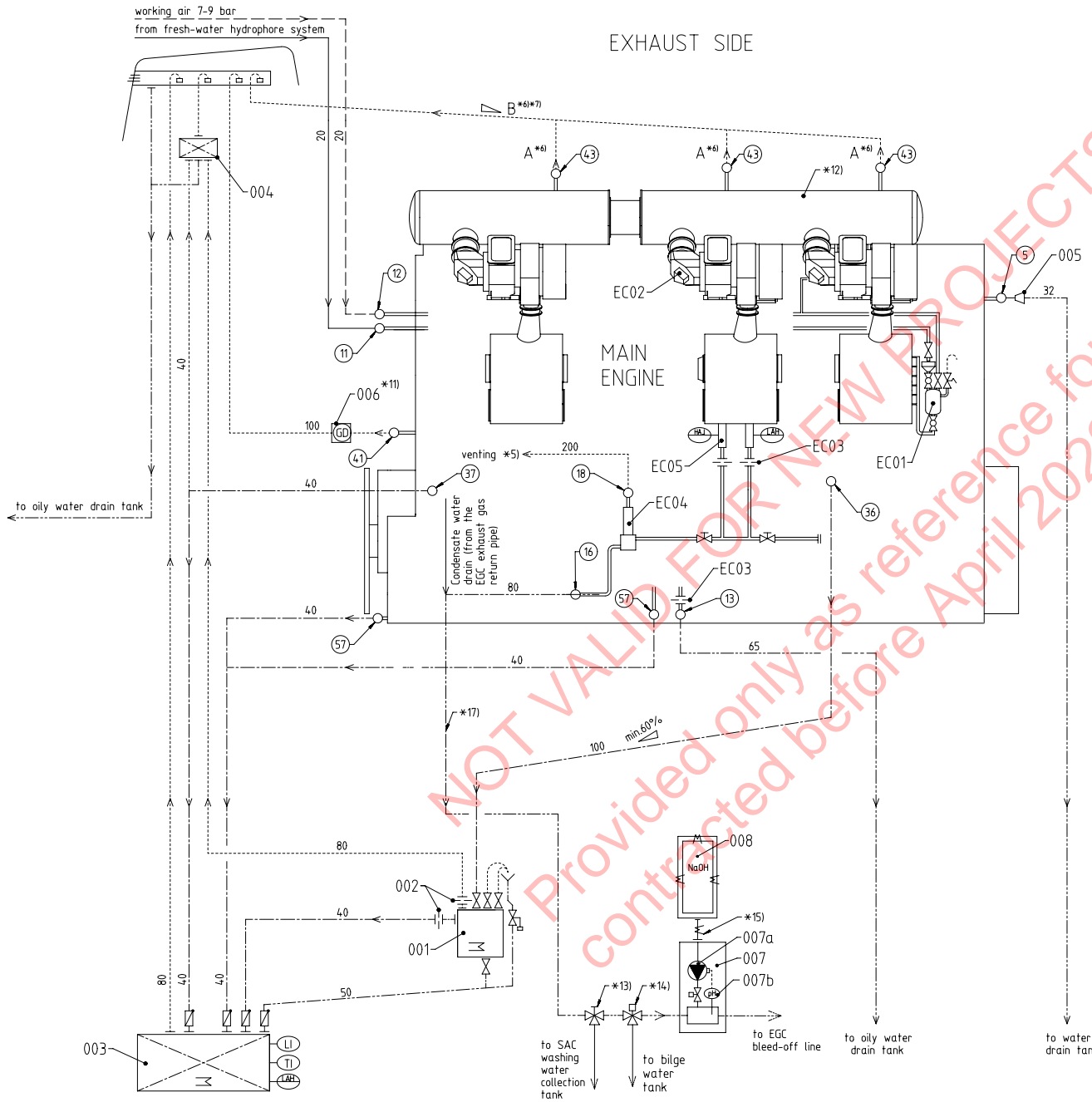
Pos.	SYSTEM COMPONENTS *1)
001	Sludge oil trap (link to detail drawing on the partlist of this drawing).
002	Throttling disc (size shown on separate sludge oil trap drawing)
003	Sludge or appropriate tank
004	Air vent manifold
005	Transition piece (adaptor) *9)
006	Gas detector *11)
007	pH-neutralisation dosing unit with *16) 007a - NaOH dosing pump 007b - pH sensor
008	NaOH storage tank *15) *16)

Pos.	ENGINE CONNECTIONS *2)
5	OUTLET - Cylinder cooling water drain
11	INLET - Washing water SAC
12	INLET - Air for cleaning TC and SAC
13	OUTLET - Dirty water from scavenge air receiver *10)
16	OUTLET - SAC condensate water *4) *10) *17)
18	OUTLET - SAC venting *5)
36	OUTLET - Dirty oil piston underside
37	OUTLET - Leakage oil gland box
41	OUTLET - Venting crankcase
43	OUTLET - Venting turbocharger
57	OUTLET - Various leakages

Pos.	ENGINE COMPONENTS *3)
EC01	Scavenge air cooler washing plant
EC02	Dry cleaning device
EC03	Throttling disc
EC04	Venting Unit
EC05	Condensate drain unit

## EXHAUST SIDE

## MAIN ENGINE



**Remarks**

- Air vent and drain pipes must be fully functional at all inclination angles of the ship at which the engine must be operational.
- \*1) To be installed by the shipyard.
- \*2) Refer to the "Pipe Connection Plan" for the execution and location of the engine pipe connections.
- \*3) To be delivered by the engine manufacturer, i.e. already equipped on engine side.
- \*4) The amount of condensate water drained off after the SAC depends on the relative air humidity and the scavenge air temperature before and after the SAC. During iCER operation, the SAC drain water amount is significantly increased. The specific drain amount is provided by the GTD.
- \*5) Free flow venting outside of engine room.
- \*6) In relation to turbocharger type, see table on the left side.
- \*7) Vent pipe diameter as per turbocharger requirements.
- \*8) Vent pipe diameter of common collection pipe.
- \*9) Installed as required (check with the Pipe Connection Plan).
- \*10) Drain connection 13 and 16 are with air flow from scavenging system. Both drain lines must be kept separated and directed to separate tanks. The tanks must be designed with sufficiently sized vents to prevent excessive pressure in the tanks. The drain amount depends on the ambient conditions.
- \*11) Optional, to be installed if requested by the flag state and/or class to achieve IGC compliance.
- \*12) Manifold pipe for 2 TC
- \*13) Switching to the separate washing water collection tank must be carried out for SAC cleaning.
- \*14) While the iCER is in operation, drain to the EGC bleed-off line. The solenoid valve is actuated by a signal from the "Engine Control System".
- \*15) If the caustic soda water solution has a mass fraction of 50% min NaOH, then the tank and supply line must be trace heated and insulated to keep the caustic soda temperature in the range of 27 - 37 °C. If the caustic soda water solution has a mass fraction of max. 30% min NaOH, then no heating is required.
- \*16) The caustic soda storage tank and the pH-neutralisation dosing unit must be applied for installations with iCER diesel Tier III mode. For installations with only iCER gas mode, this unit can be omitted.
- \*17) The system components from the SAC condensate water outlet (engine connection 16) must be designed for low pH operation. After pH neutralisation (unit 007 on this drawing or the pH-neutralisation dosing unit in the EGC bleed-off line), the system components can be of standard material.

- Compressed air pipes
- ..... Air vent pipes
- Drain & overflow pipes
- Washing water pipes
- Dirty oil drain pipes
- Pipes on engine
- Pipe connections



## MIDS – Leakage Collection & Washing System (DG9724)

WinGD X62DF-S2.0

### TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2022-03-16	DRAWING SET	First web upload
2022-06-30	PTAA037458 PTAA037107	System and main drgs – new drgs as replacement for the previous drawing set added
2022-12-02	PTAA037107	New revision
2022-12-20	PTAA037107	New revision
2024-04-22	PTAA073703— PTAA073708--	New drawings
2024-06-05	PTAA073708A PTAA073703A	New revision
2024-08-26	PTAA073708B PTAA073703B	New revision

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