

Available executions

Execution No.	Material ID	Attribute 1: Emission class (Tier)			
		Tier II without SCR	Tier III HP-SCR on-engine	Tier III HP-SCR off-engine	Tier III LP-SCR off-engine
001	PAAD363075	X		X	X
002	PAAD373723		X		

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.

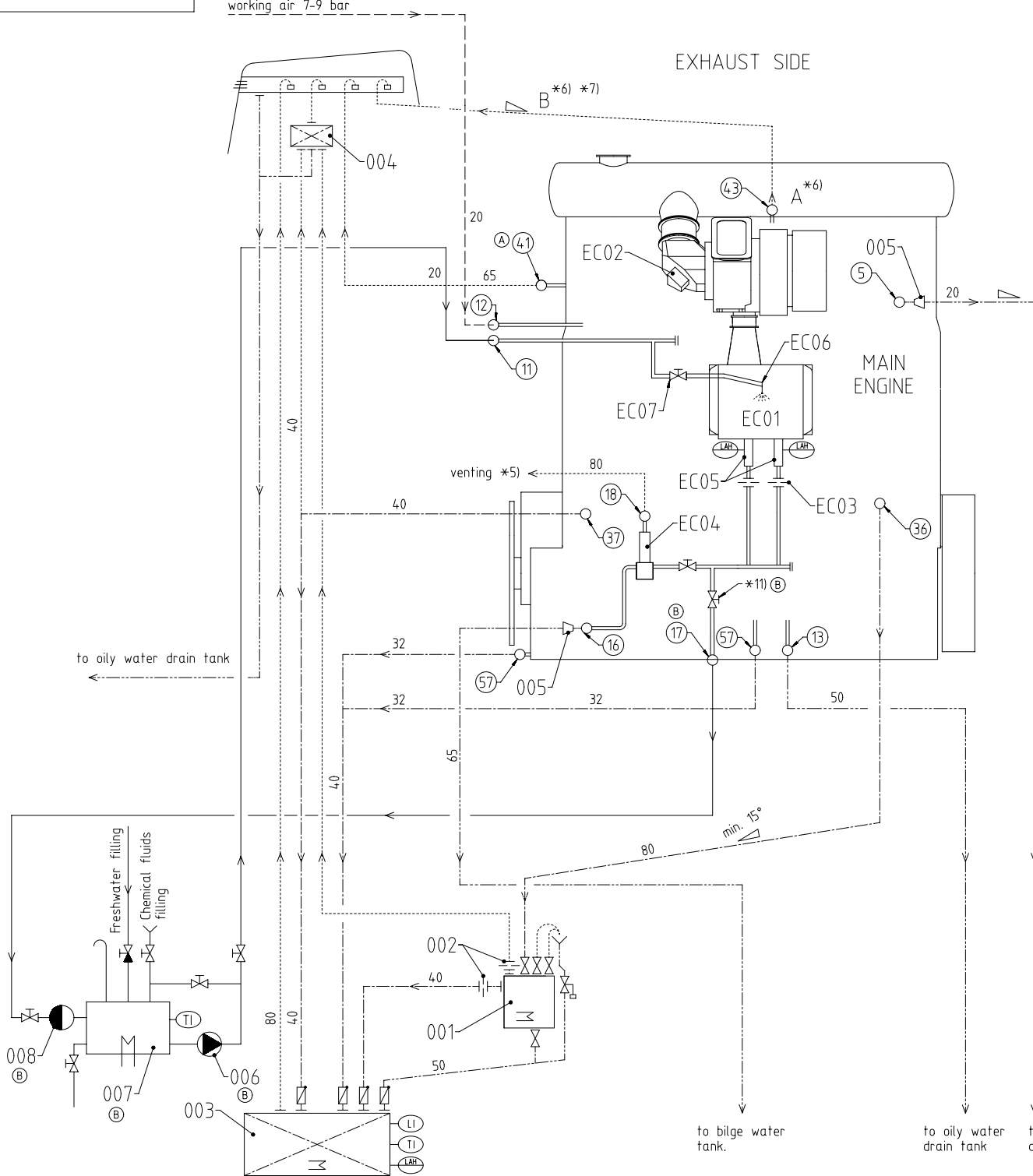
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Prod.	X62-S2.0									
Change History										
	-	sna102	dst009	27.04.2023	CNAA003657	new Design		-	-	
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved	Activity Code	E C	
 Winterthur Gas & Diesel				LEAKAGE COLLECTION/WASHING 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	PTAA026098		Drawing Page/s

SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
001	1	PAAD363071	LEAKAGE COLLECTION/WASHING SYS.				0.001
Prod.	5,6,7,8 X62-S2.0						
Change History							
	A	sna102	mhu019	28.11.2022	CNAA002856	Main Design/Drawing Introduced	4 3
	-	sde101	mhu019	26.02.2021	EAAD787123	-	- -
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code E C
<div>WIN GD Winterthur Gas & Diesel</div>			LEAKAGE COLLECTION/WASHING SYS.				
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 PAAD363075	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		
Prod.	X62-S2.0								
Change History									
	B	sjo101	mhu019	16.06.2023	CNAA003946	Drawing updated	4 3		
	A	npa101	mhu019	06.04.2023	CNAA003513	Drawing Updated	4 3		
	-	sde101	mhu019	26.02.2021	EAAD787123	-	- -		
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved Activity Code E C		
<div>WIN GD</div> <div>Winterthur Gas & Diesel</div>			LEAKAGE COLLECTION/WASHING SYS.						
Bill Of Material			Dimension						
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			[m] [kg]				0.001		
			Main Design		Design Group		9724	Q-Code	XXXXX
							Standard	WDS	
			Qty per	A4	Item ID	PAAD363071	BOM Page/s		
							01/01		

SYSTEM PROPOSAL



Turbocharger type	A**	B**	Min. Inclination
1x A165-L	65	65	≥ 5°
1x A170-L	65	65	≥ 5°
1x A175-L	65	65	≥ 5°
1x A265-L	65	65	≥ 5°
1x A270-L	65	65	≥ 5°
1x A275-L	65	65	≥ 5°
2x A165-L	65	80	≥ 5°
2x A170-L	65	100	≥ 5°
2x A265-L	65	80	≥ 5°
2x A270-L	65	100	≥ 5°
1x MET48MB	65	65	≥ 3°
1x MET53MB	65	65	≥ 3°
1x MET60MB	80	80	≥ 3°
1x MET66MB	80	80	≥ 3°
2x MET42MB	50	65	≥ 3°
2x MET48MB	65	80	≥ 3°
2x MET53MB	65	80	≥ 3°
1x MET42MBII	50	50	≥ 3°
1x MET48MBII	65	65	≥ 3°
1x MET53MBII	65	65	≥ 3°
1x MET60MBII	80	80	≥ 3°
1x MET66MBII	80	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 (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	Chemical wash water circulation tank *12)
007	Chemical wash water circulation pump
008	Chemical wash water strainer (0.5-1.0 mm)

Pos.	ENGINE CONNECTIONS *2)
05	OUTLET - Cylinder cooling water drain
11	INLET - Washing water SAC
12	INLET - Air for cleaning TC
13	OUTLET - Oily water from scavenge air receiver *10)
16	OUTLET - SAC condensate water *4) *10)
17	OUTLET - SAC wash water
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
EC06	SAC washing spray nozzle
EC07	SAC washing isolating valve

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 delivered by external suppliers and 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. Under extreme ambient conditions a maximum condensate quantity of up to 0.16 kg/kWh may be produced.
*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. It is recommended to connect these drains to different tanks. The tanks must be designed with sufficiently sized vents to avoid excessive pressure in the tanks. The drain amount depends on the ambient conditions.
*11) Switching to the separate washing water collection tank must be carried out for SAC cleaning.
*12) Wash water is heated to between 50 and 60 °C by a heating coil.

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

SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
001	1	PAAD373724	LEAKAGE COLLECTION/WASHING SYS.				0.001
Prod.	5,6,7,8 X62-S2.0						
Change History							
	A	sna102	mhu019	28.11.2022	CNAA002856	Main Design/Drawing Introduced	4 3
	-	dki021	mhu019	26.02.2021	EAAD787123	-	- -
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code E C
<div>WIN GD Winterthur Gas & Diesel</div>			LEAKAGE COLLECTION/WASHING SYS.				
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 PAAD373723	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
Prod.	X62-S2.0						
Change History							
	A	npa101	mhu019	16.06.2023	EAAD787123	Drawing Updated	4 3
	-	dki021	mhu019	26.02.2021	EAAD787123	-	- -
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved Activity Code E C
<div>WIN GD</div> <div>Winterthur Gas & Diesel</div>			LEAKAGE COLLECTION/WASHING SYS. with iSCR				
Bill Of Material			Dimension				
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				Main Design		Design Group 9724 Q-Code XXXXX	Standard WDS
				Qty per		A4 Item ID PAAD373724	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 be not connected to other venting pipes.

(57) OUTLET - Various leakages
- Gravity flow to sludge tank or appropriate tank.

(X1) INLET - SCR freshwater supply
- Freshwater, supply pressure: 0.2 -1.5 bar

(X2) OUTLET - SCR water drain
- Gravity flow to sewage tank or an appropriate tank

(5) OUTLET - Cylinder cooling water drain.
- Gravity flow to cooling water drain tank or appropriate tank.

(11) INLET - Washing water SAC
- From fresh water hydrophore system, supply pressure: 2.5 bar

(12) INLET - Air for cleaning plants TC
- Working air, supply pressure: 7-9 bar

(13) OUTLET - Oily water from scavenge air receiver
- Gravity flow to oily water tank or appropriate tank.

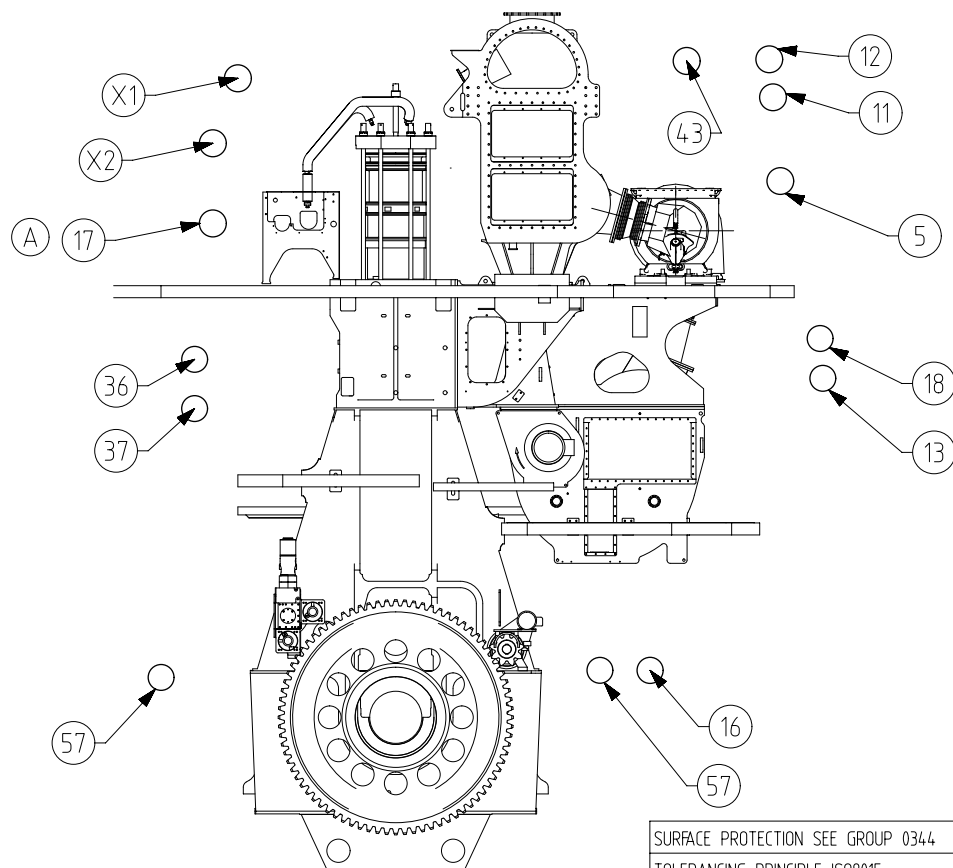
(16) OUTLET - SAC condensate water
- Gravity flow to bilge water tank or appropriate tank.

(17) OUTLET - SAC wash water
- To wash water collection tank during SAC cleaning.

(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°

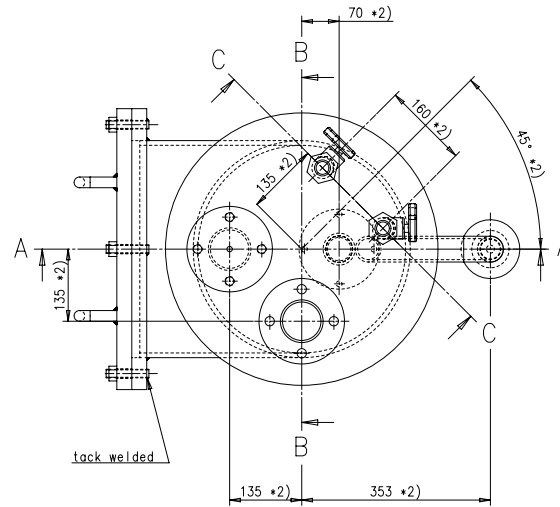
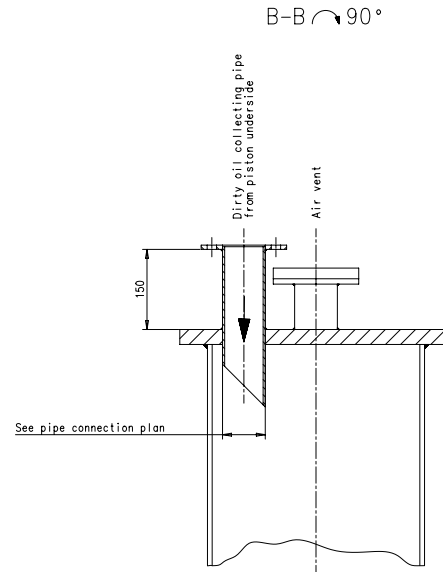
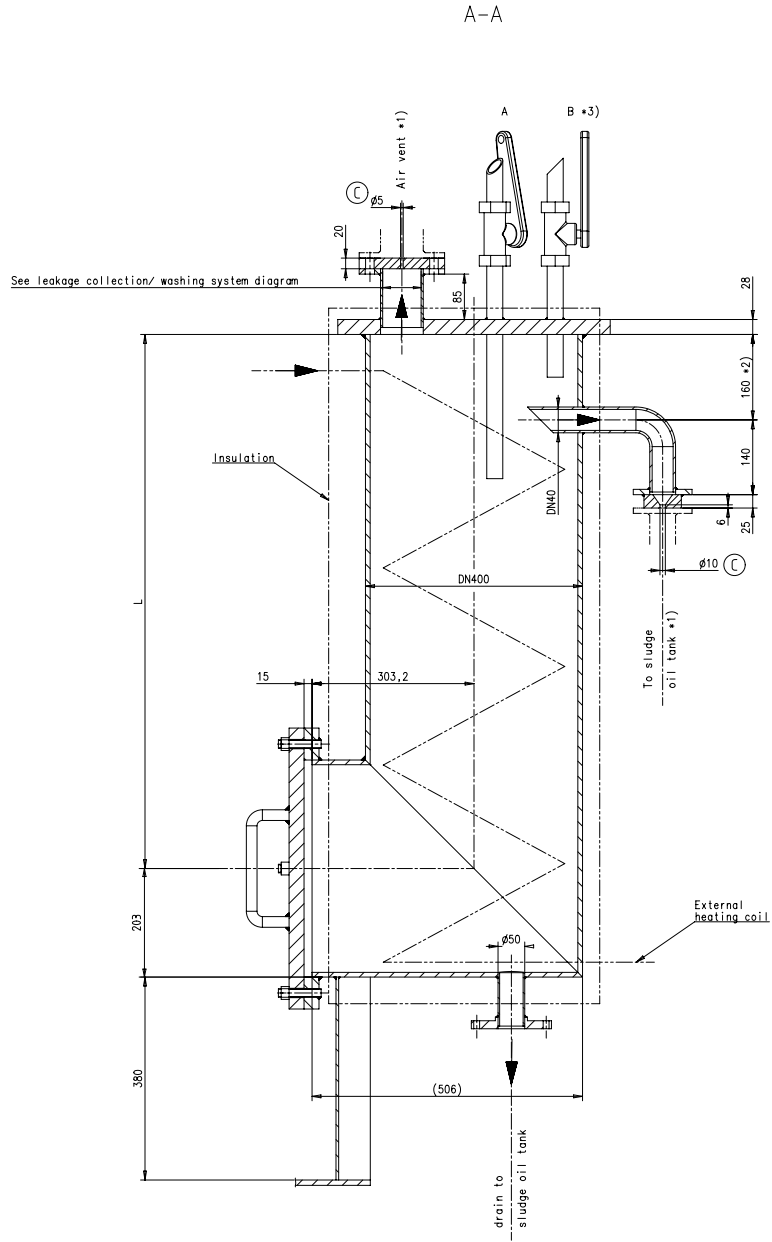
(37) OUTLET - Leakage oil gland box
- Gravity flow to sludge tank or appropriate tank.



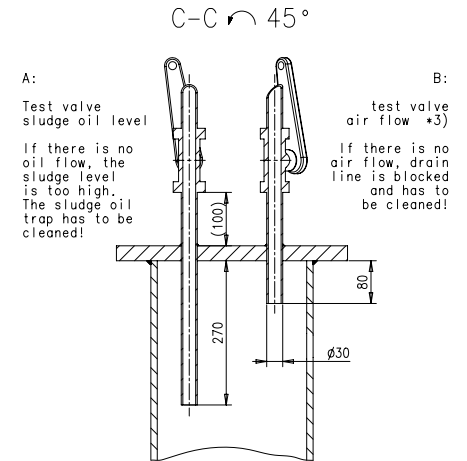
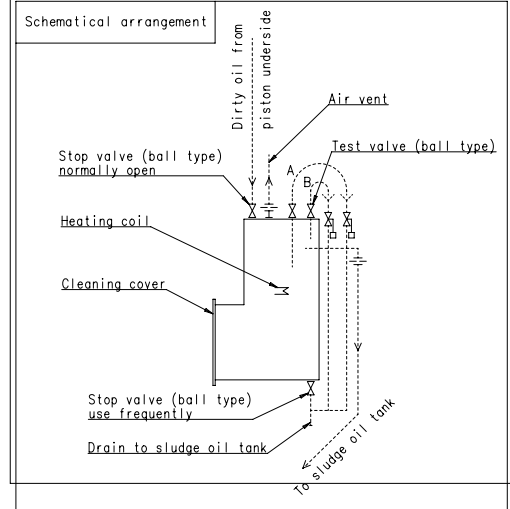
SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Prod.	X62-S2.0												
Change History													
	A	npa101	nmh019	16.02.2023	04003946	Drawing Updated					4	3	
	-	dki021	mhu019	26.02.2021	EAAD787123	-					-	-	
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis					Approved	Activity Code	E
<div>WINGD Winterthur Gas & Diesel</div>					LEAKAGE COLLECTION/WASHING SYS. with iSCR								
separate BOM available					Dimension								
Scale		-		NX	Units [mm] [kg]		Basic Material			Net Weight		0.001	
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					Qty per		A3	Item ID		PAAD373724		Drawing Page/s 1/2	

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



Free space for file		G-Code XXXXX		Main Drw.	
Standard ISO, JIS					
Mod.	A	B	C	D	
Number	EAAD08405122.01.2013	EAAD08784914.07.2017	EAAD08943912.07.2018		
Drawn date					
Product W-25		SLUDGE OIL TRAP			
Units mm kg NX		Basic Material		Net Weight 0.001	
Made 31.08.2009 J.BAUMANN		Scale 1:5		Size A1	
TOLERANCING PRINCIPLE ISO8015		Design Group		Material 107.425.369.500	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd 13.11.2009 JBA020 Baumann		Drawing 9724	
				Rev. C	

MIDS - LEAKAGE-COLLECTION_and_WASHING-SYSTEM (DG9724)

WinGD-X62-S2.0

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2021-03-01	DRAWING SET	First web upload
2023-04-26	PAAD363075 PAAD373723	Main items and MDS master – new revision
2023-05-05	PAAD363071A	System drg – new revision
2023-06-19	PAAD373724A PAAD363071B	System drg – new revision

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