

1 2 3 4 5 6 7 8

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A
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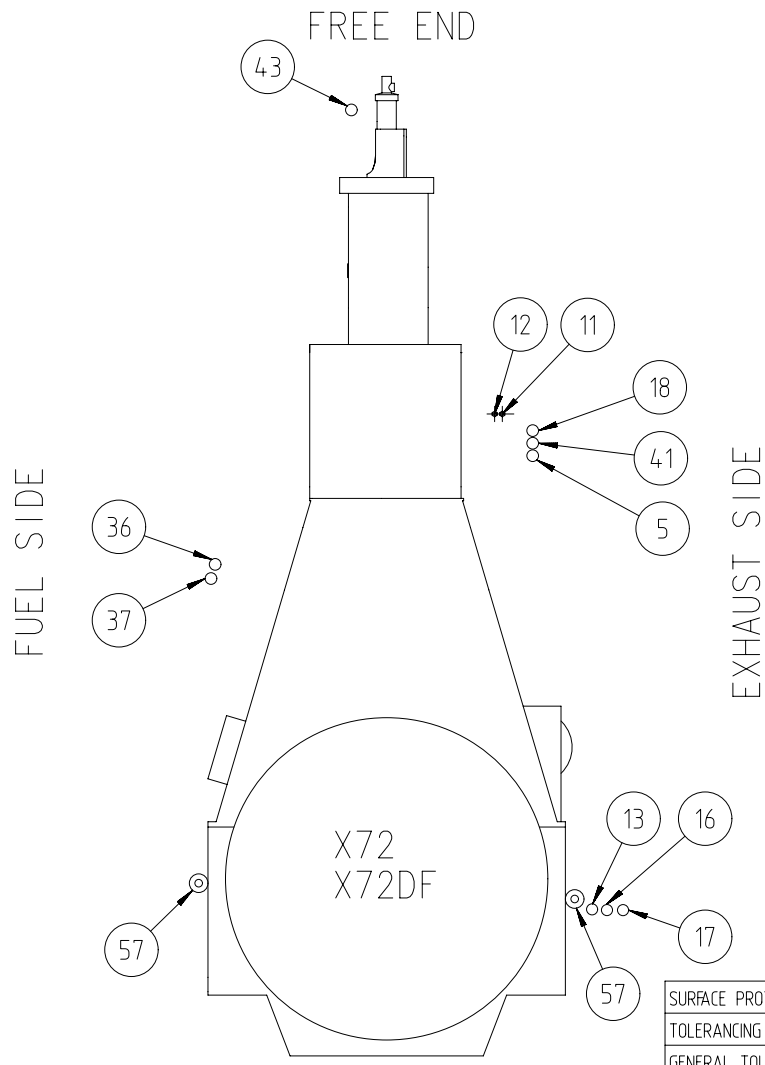
Net Weight		0,001		1		001		PAAD104016		LEAKAGE COLLECTION/WASHING SYS.		DAAD032750		0,001	
Quantity		PER ENGINE		SEQ NO		Material ID		Material Name		Dimension, Occ		Standard or Drawing		Weight GR./NET	
Free space for lic.		PAAD104023		Q-Code		XXXXXX		Main Drw.		Standard		ISO; JIS		H	
Modif.		A		EAAD090104		12.09.2019									
Material ID		Number		Drawn date		Number		Drawn date		Number		Drawn date		Number	
Units		mm kg		NX		 WIN GD <i>Winterthur Gas & Diesel</i>		Product W5-8X72 W5-8X72DF		LEAKAGE COLLECTION/WASHING SYS.		LEAKAGE COLLECTION/WASHING SYS.		Net Weight	
SURFACE PROTECTION SEE GROUP 0344		Made		30.10.2012		asex06 A.Sekulic		Scale		-		Size		A3	
TOLERANCING PRINCIPLE ISO8015		Chkd		07.12.2012		wwr001 Wroblewski		Design Group		9724		Page		1/1	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd		10.12.2012		bha009 Haag		Drawing ID		DAAD032760		Rev.		A	

Approved
PD - PRODUCTION DRAWING - Confidential

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SPECIFICATION which must be met (B)

A	(41)	OUTLET - Venting crank case - Venting to funnel - Must not be connected to other venting pipes.	(5)	OUTLET - Cylinder cooling water drain. - Gravity flow to cooling water drain tank or appropriate tank.	A
	(43)	OUTLET - Venting turbocharger - Venting to funnel - Minimum inclination according to TC suppliers specification - Must be not connected to other venting pipes.	(11)	INLET - Washing water SAC - From fresh water hydrophore system, supply pressure: 2.5 bar	
B	(57)	OUTLET - Various leakages - Gravity flow to sludge tank or appropriate tank.	(12)	INLET - Air for cleaning plants TC and SAC - Working air, supply pressure: 7-9 bar	B
			(13)	OUTLET - Oily water from scavenge air receiver - Gravity flow to oily water tank or appropriate tank.	



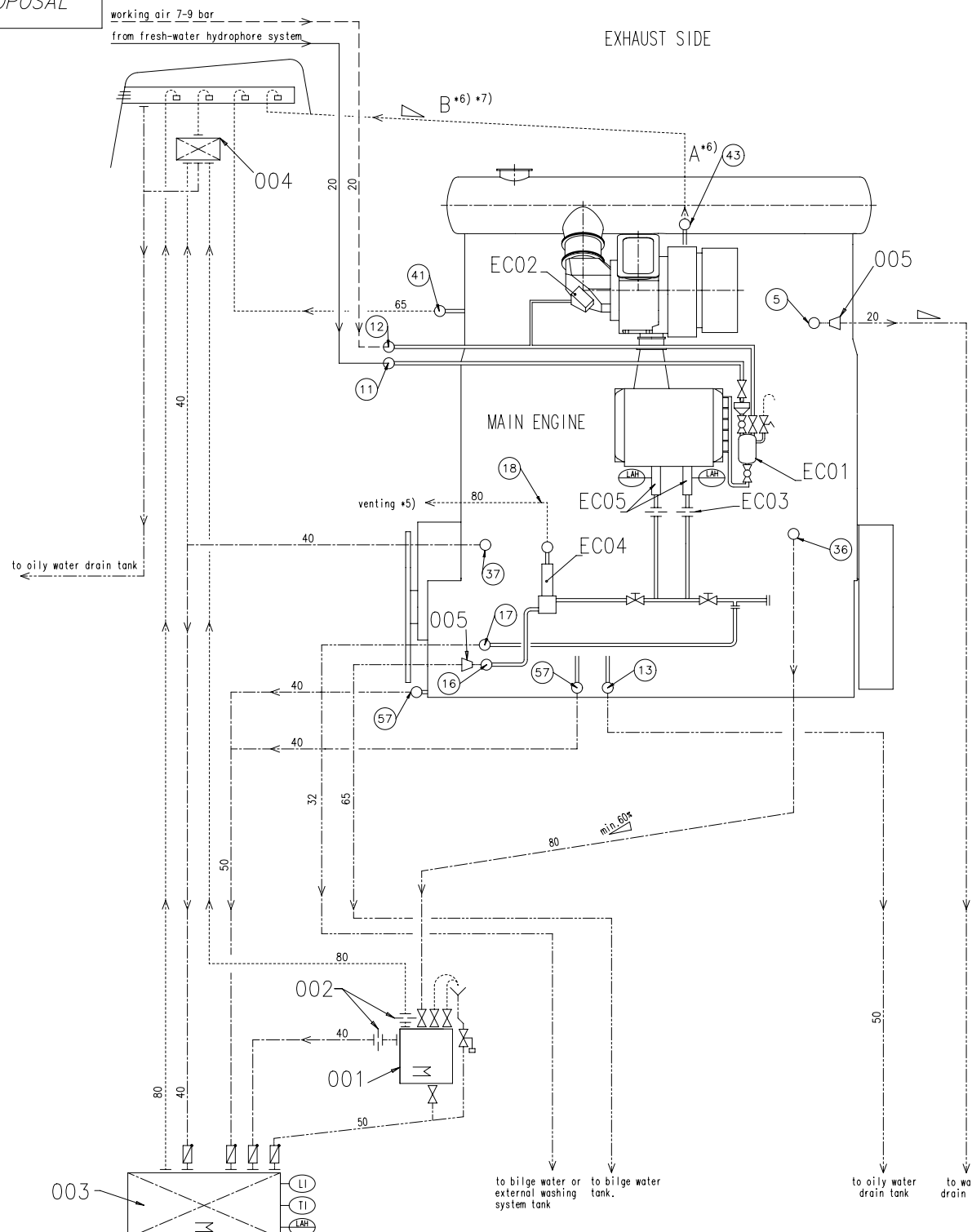
(16)	OUTLET - SAC condensate water - Gravity flow to bilge water tank or appropriate tank.
(17)	OUTLET - Washing water from scavenge air coller. - Gravity flow to bilge water or chemical cleaning tank.
(18)	OUTLET - SAC venting - Free flow outside of engine room
(36)	OUTLET - Dirty oil piston underside - Flow with SAC pressure to sludge oil trap or appropriate arrangement. - Min. inclination of drain pipe: 60 %
(37)	OUTLET - Leakage oil gland box - Gravity flow to sludge tank or appropriate tank.

Free space for lic.							Q-Code XXXXXX	Main Drw.			
							Standard ISO; JIS				
Modif.	A	EAAD086218	23.10.2015	B	EAAD090104	24.08.2019					
	Number	Drawn date		Number	Drawn date		Number	Drawn date			
		Product 5-8X72 5-8X72DF		LEAKAGE COLLECTION/WASHING SYS. SYSTEM DIAGRAM LEAKAGE COLLECTION/WASHING SYS.							
Units	mm kg	NX		Basic Material		Net Weight 0,001					
Made	30.10.2012	asex06 A.Sekulic		Scale	-	Size	A3	Page	1/2	Material ID	PAAD104016
Chkd	07.12.2012	wvr001 Wroblewski		Design Group	9724	Drawing ID	DAAD032750		Rev.	B	
Appd	10.12.2012	bha009 Haag									

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

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SYSTEM PROPOSAL



Turbocharger type A *7)	B *8)	Min. Inclination
1x A165	65	>5°
1x A265	65	>5°
1x A170	65	>5°
1x A270	65	>5°
1x A175	65	>5°
1x A275	65	>5°
1x A180	80	>5°
1x A280	80	>5°
1x A185	80	>5°
1x A285	80	>5°
2x A165	65	>5°
2x A170	65	>5°
2x A175	65	>5°
2x A180	80	>5°
2x A185	80	>5°
2x A190	80	>5°
1x MET53MB	65	>3°
1x MET60MB	80	>3°
1x MET66MB	80	>3°
1x MET71MB	80	>3°
1x MET83MB	100	>3°
2x MET53MB	65	>3°
2x MET60MB	80	>3°
2x MET66MB	80	>3°

Pos.	SYSTEM COMPONENTS *1) (B)
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)

Pos.	ENGINE CONNECTIONS *2) (B)
5	OUTLET - Cylinder cooling water drain
11	INLET - Washing water SAC
12	INLET - Air for cleaning TC and SAC
13	OUTLET - Oily water from scavange air receiver *10)
16	OUTLET - SAC condensate water *4) *10)
17	OUTLET - Washing water from scavange air coller
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) (B)
EC01	Scavange air cooler washing plant
EC02	Dry cleaning device
EC03	Throttling disc
EC04	Venting Unit
EC05	Condensate drain unit

Remarks (B)

- 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 scavange 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.

Mod.	EAAD0821B	23.10.2015	EAAD0901A	24.08.2015				
Number		Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date

WINGD
Wärmer Gas & Diesel

Prody: 5-8X72, 5-8X72DF

LEAKAGE COLLECTION/WASHING SYS. SYSTEM DIAGRAM
LEAKAGE COLLECTION/WASHING SYS.

Units	mm kg	NX	Basic Material	Scale	-	Size	Page	2/2	Material ID	PAAD104016	Net Weight	0,001
SURFACE PROTECTION	SEE GROUP 0344	Made	30.10.2012	asex06	A.Sekulic	Design Group	AT	9724	DAAD032750	Rev.	B	
TOLERANCING PRINCIPLE	ISO8015	Chd	07.12.2012	wert01	Wojciechowski	Apod	10.12.2012	bha009	Haag			
GENERAL TOLERANCES	ACCORDING TO ISO2768-mK											

MIDS - WinGD-X72/DF - LEAKAGE-COLLECTION and WASHING-SYSTEM (DG9724)

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2016-10-16	DRAWING SET	First web upload
2017-08-18	107.425.369	Sludge trap drg -new drawing revision
2018-10-02	107.425.369	Sludge trap drg -new drawing revision
2019-09-18	DAAD032760 DAAD032750	Main and System drg - new revision

DISCLAIMER

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