NetWeight						
0,001						
1	001	PAAD081112	LEAKAGE COLLECTION/WASHING SYS.	DAAD026757		0,001
Quantity PER ENGINE	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR./NET

PAAD096358 MaterialID	Free space for lic.									Q-Code XXXXX	Main Drw. H
	Modif.	A	EAAD090104	12.09.2019						Standard ISO; JIS	
			Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date	

WIN GD Winterthur Gas & Diesel

Product
W5-8X62
W5-8X62DF

LEAKAGE COLLECTION/WASHING SYS.

LEAKAGE COLLECTION/WASHING SYS.

Units mm kg	NX	Basic Material	Net Weight

SURFACE PROTECTION SEE GROUP 0344	Made	01.10.2012 asex06 A.Sekulic	Scale -	Size A3	Page 1/1	Material ID
TOLERANCING PRINCIPLE ISO8015	Chkd	03.12.2012 mhu019 Hug	Design Group 9724	Drawing ID DAAD030307		Rev. A
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	03.12.2012 wwr001 Wroblewski				

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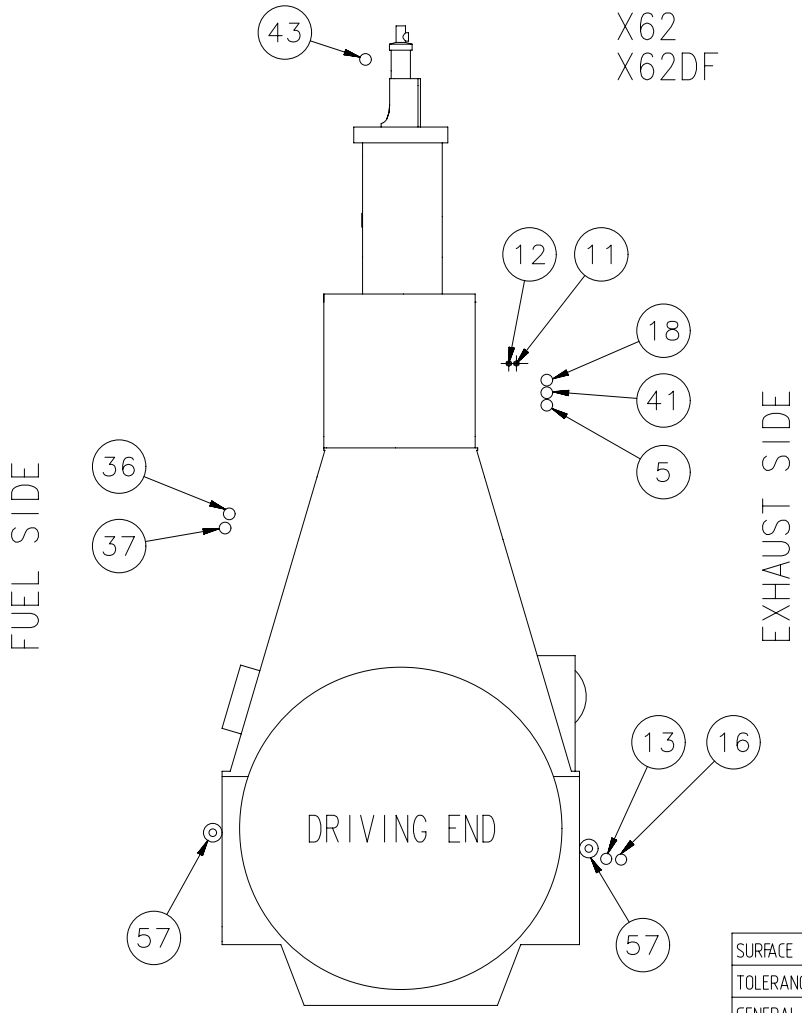
SPECIFICATION which must be met (B)

(41)	OUTLET - Venting cranck case - 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 be not 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 fresh water hydrophore system, supply pressure: 2.5 bar
(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 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.



1	001	107.425.369.500	SLUDGE OIL TRAP		107.425.369		0,001
QTY	SEQ NO	Material ID	Material Name / Dimension, Occ		Standard or Drawing	Basic Material / Material Standard	Weight GR./NET

Free space for lic.

Q-Code: XXXXX

Standard: ISO; JIS

Main Drw.

Modif.		Number	Drawn date		Number	Drawn date		Number	Drawn date		Number	Drawn date
	A	EAAD084349	30.01.2013	B	EAAD090104	24.08.2019						

WIN GD Winterthur Gas & Diesel

Product: 5-8X62, 5-8X62DF

LEAKAGE COLLECTION/WASHING SYS.
SYSTEM DIAGRAM

LEAKAGE COLLECTION/WASHING SYS.

Units mm kg	NX		Basic Material		Net Weight 0,001
Made 27.09.2012 mhu019 M.Hug		Scale -	Size A3	Page 1/2	Material ID PAAD081112
Chkd 30.11.2012 sfe006 Feuerstein		Design Group 9724	Drawing ID DAAD026757		Rev. B
Appd 30.11.2012 wwr001 Wroblewski					

SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

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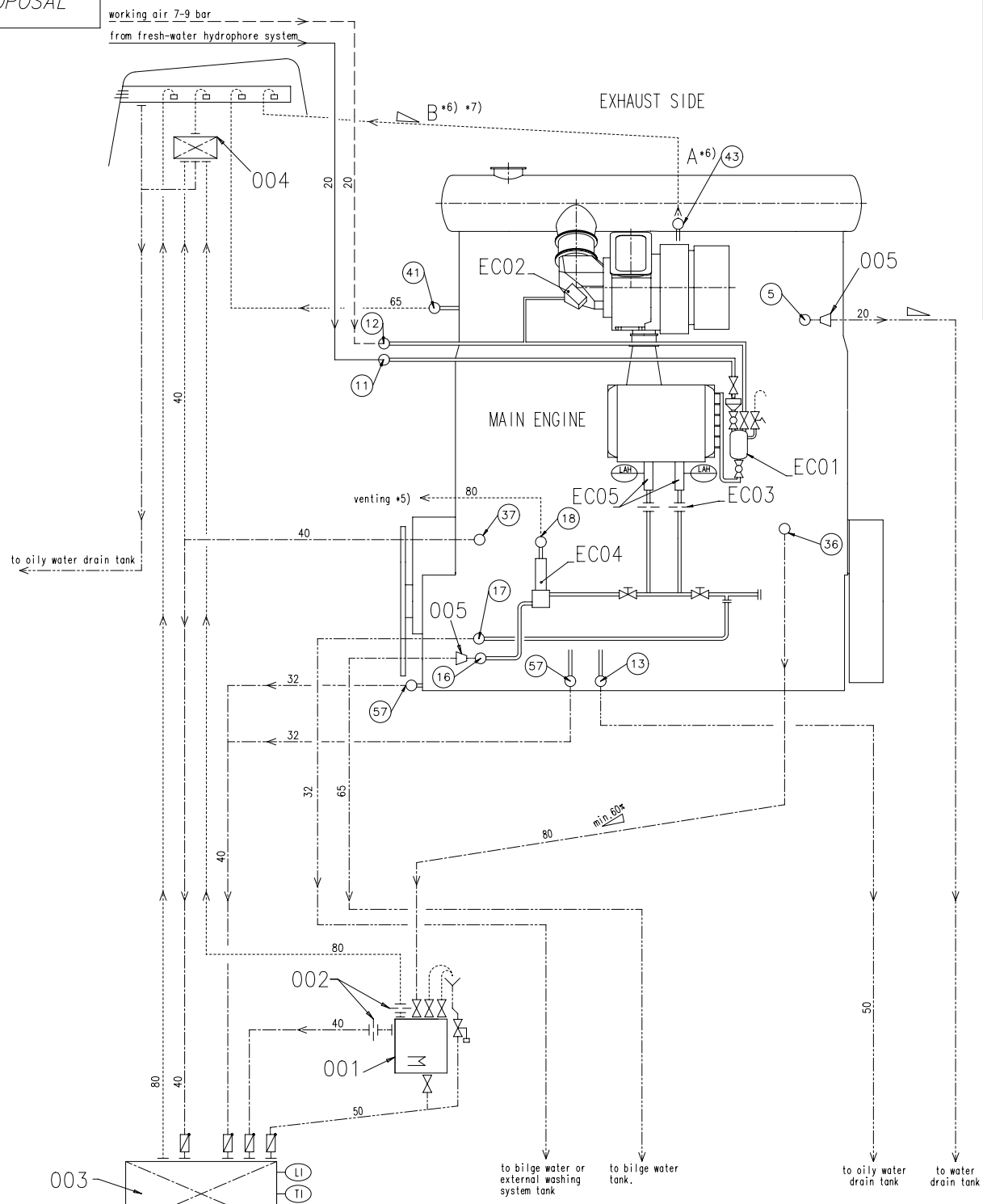
SYSTEM PROPOSAL



Turbochrger type	A *7)	B *8)	Min. Inclination
1x A170	65	65	>5°
1x A175	65	65	>5°
1x A180	80	80	>5°
2x A165	65	80	>5°
2x A170	65	90	>5°
2x A175	65	100	>5°
1x A185	80	80	>5°
1x MET53MB	65	65	>3°
1x MET60MB	80	80	>3°
1x MET66MB	80	80	>3°
2x MET42MB	50	65	>3°
1x MET71MB	80	80	>3°
2x MET53MB	65	80	>3°
1x MET83MB	100	100	>3°
2x MET60MB	80	100	>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 approriate 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 scavenge air receiver
(16)	OUTLET - SAC condensate water *4)
(17)	OUTLET - Washing water from scavenge 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	Scavenge 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 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.

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

Free space for Nr.

Q-Code XXXXX

Standard ISO; JIS

Main Drw.

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
	A EAAD084349	30.01.2013	B EAAD090104	24.08.2019				

WIN GD Winterthur Gas & Diesel

Product 5-8X62 5-8X62DF

LEAKAGE COLLECTION/WASHING SYS. SYSTEM DIAGRAM

LEAKAGE COLLECTION/WASHING SYS.

Units	mm kg	NX	Basic Material	Net Weight 0,001

SURFACE PROTECTION SEE GROUP 0344	Made	27.09.2012	mhu019 M.Hug	Scale	-	Size A1
TOLERANCING PRINCIPLE ISO8015	Chkd	30.11.2012	sfe006 Feuerstein	Design Group	9724	Page 2/2
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	30.11.2012	wwr001 Wrobiewski			Material ID PAAD081112
						Drawing ID DAAD026757 Rev. B

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Remarks:

*1) Orifice to be as shown

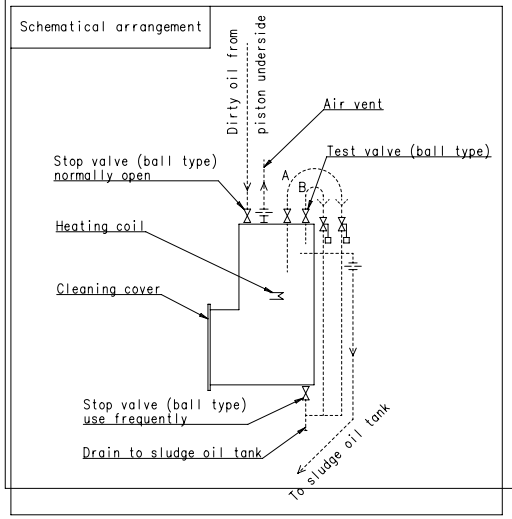
*2) Observe location of pipes with regard to each other

*3) Optional - Alternatives, such as level sensors, are possible

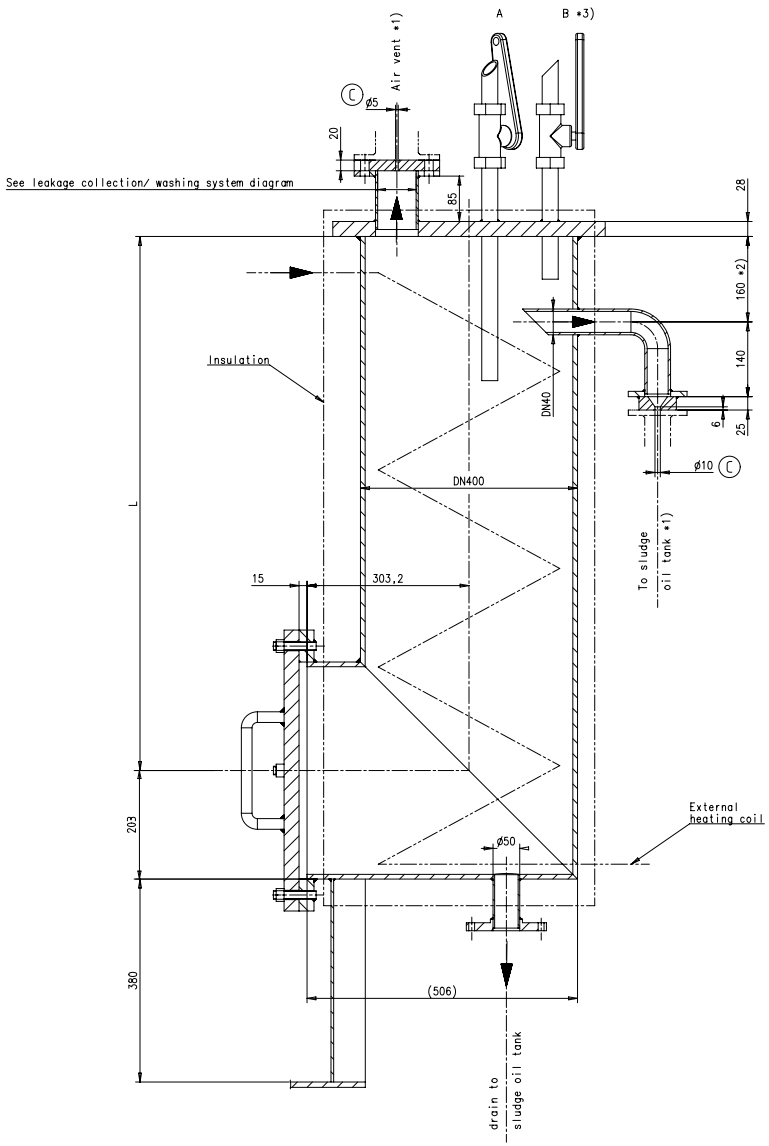
Details:

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

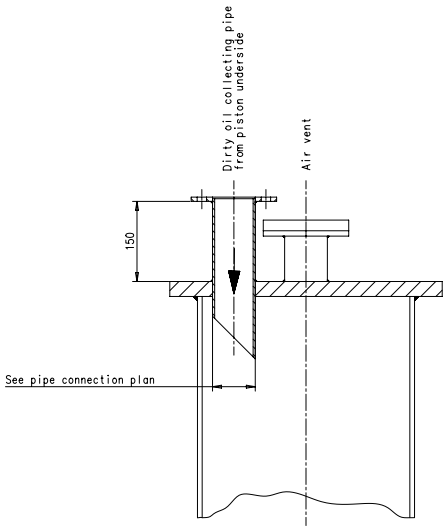
Schematical arrangement

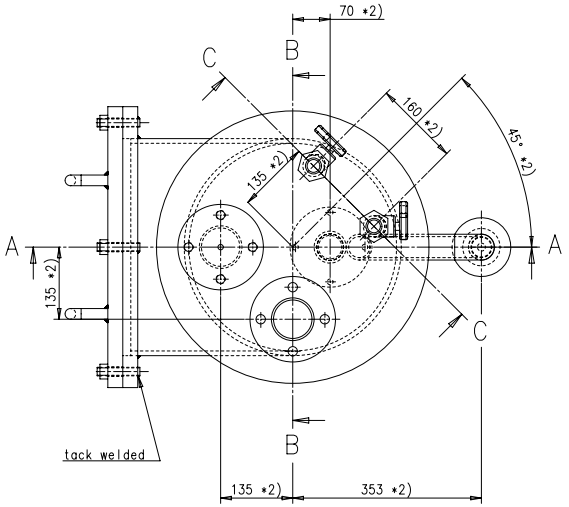


A-A



B-B 90°





C-C 45°

A:

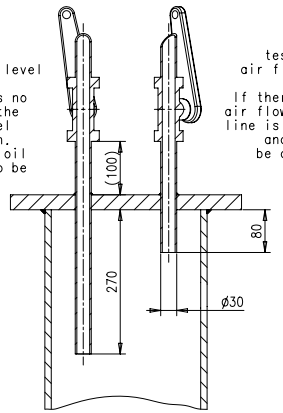
Test valve sludge oil level

If there is no oil flow, the sludge level is too high. The sludge oil trap has to be cleaned!

B:

test valve air flow *3)

If there is no air flow, drain line is blocked and has to be cleaned!



Free space for lic.										Q-Code XXXXX	Main Drw.
										Standard ISO; JIS	
Modif.	A	EAAD084051	22.01.2013	B	EAAD087849	14.07.2017	C	EAAD089439	12.07.2018		
	Number		Drawn date	Number		Drawn date	Number		Drawn date	Number	Drawn date

WINGD Winterthur Gas & Diesel

Product W-2S

SLUDGE OIL TRAP

Units mm kg	NX	Basic Material						Net Weight 0.001	
SURFACE PROTECTION SEE GROUP 0344	Made	31.08.2009	J.BAUMANN	Scale	1:5	Size	A1	Page	1/1
TOLERANCING PRINCIPLE ISO8015	Chkd			Design Group	9724	Drawing ID	107.425.369	Rev.	C
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	13.11.2009	JBA029 Baumann					Material ID	107.425.369.500

WinGD-X62 LEAKAGE-COLLECTION and WASHING-SYSTEM

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2016-11-04	DRAWING SET	First web upload
2017-08-18	107.425.369	Sludge oil trap – new drawing revision
2018-09-12	107.425.369	Sludge oil trap – new drawing revision
2019-08-18	DAAD030307 DAAD026757	Main and system drg – new revision

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