

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F

Net Weight

0,001

1

001

PAAD367981

LEAKAGE COLLECTION/WASHING SYS.

DAAD136604

0,001

Quantity

PER ENGINE

SEQ NO

Material ID

Material Name

Dimension, Occ

Standard or Drawing

Basic Material Material Standard

Weight GR./NET

PAAD367983

Free space for lic.

Q-Code

XXXXXX

Main Drw.

H

Standard

ISO; JIS

Modif.

Material ID

Number

Drawn date

Number

Drawn date

Number

Drawn date

Number

Drawn date

WIN GD

Winterthur Gas & Diesel

Product

6-12X92DF

LEAKAGE COLLECTION/WASHING SYS.

LEAKAGE COLLECTION/WASHING SYS.

Units

mm kg

NX

Basic Material

Net Weight

SURFACE PROTECTION SEE GROUP 0344

Made

27.10.2020

Sudant Deogade

Scale

-

Size

A3

Page

1/1

Material ID

TOLERANCING PRINCIPLE ISO8015

Chkd

26.04.2021

jpi101 Pickup

Design Group

Drawing ID

DAAD136605

Rev.

-

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Appd

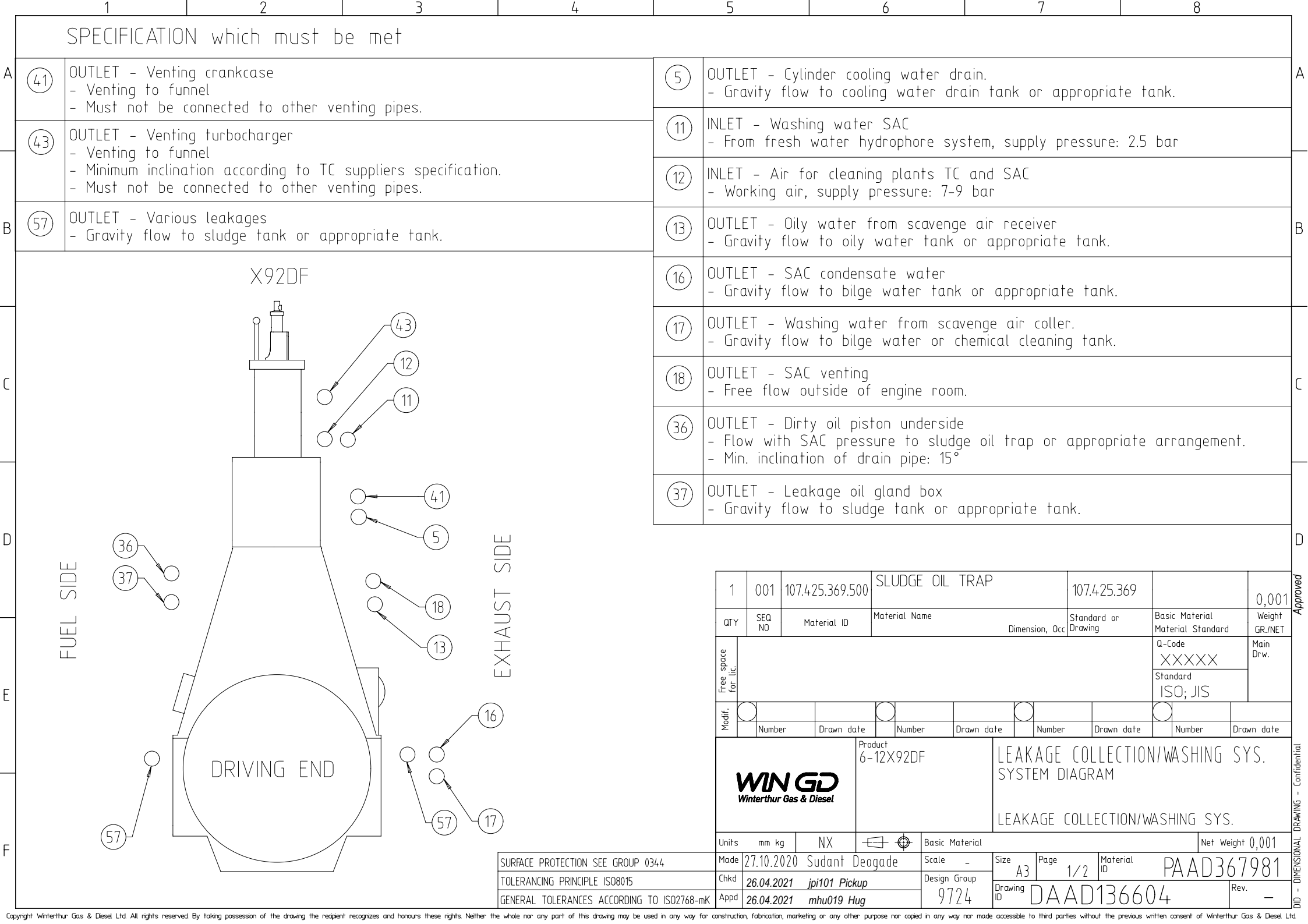
26.04.2021

mhu019 Hug

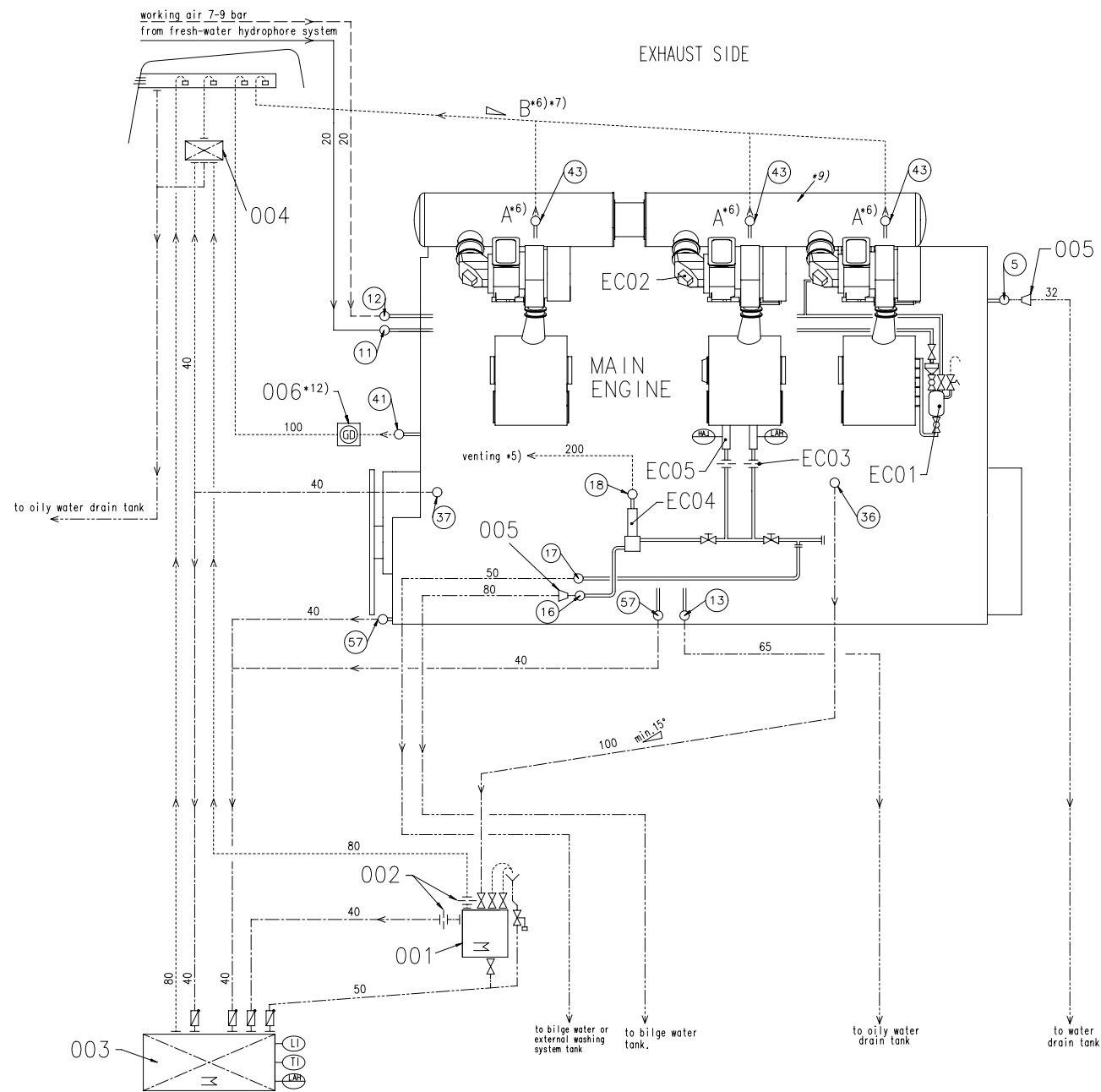
9724

Approved

UID - DIMENSIONAL DRAWING - Confidential



SYSTEM PROPOSAL



Turbocharger type	A*7)	B*8)	Min. Inclination
2x A175	65	100	≥ 5°
2x A180	80	100	≥ 5°
2x A185	80	125	≥ 5°
2x A190	80	125	≥ 5°
2x A275	65	100	≥ 5°
2x A280	80	100	≥ 5°
2x A285	80	125	≥ 5°
3x A175	65	125	≥ 5°
3x A180	80	125	≥ 5°
3x A185	80	150	≥ 5°
3x A190	80	150	≥ 5°
3x A275	65	125	≥ 5°
3x A280	80	125	≥ 5°
3x A285	80	150	≥ 5°
2x MET66MB	80	100	≥ 3°
2x MET71MB	80	100	≥ 3°
2x MET83MB	100	125	≥ 3°
2x MET90MB	100	125	≥ 3°
3x MET66MB	80	125	≥ 3°
3x MET71MB	80	125	≥ 3°
3x MET83MB	100	150	≥ 3°
3x MET90MB	100	150	≥ 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) *10)
006	Gas detector *12)

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 - Oily water from scavenge air receiver *11)
16)	OUTLET - SAC condensate water *4) *11)
17)	OUTLET - Washing water from scavenge air cooler
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

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) Manifold pipe for 2 TC

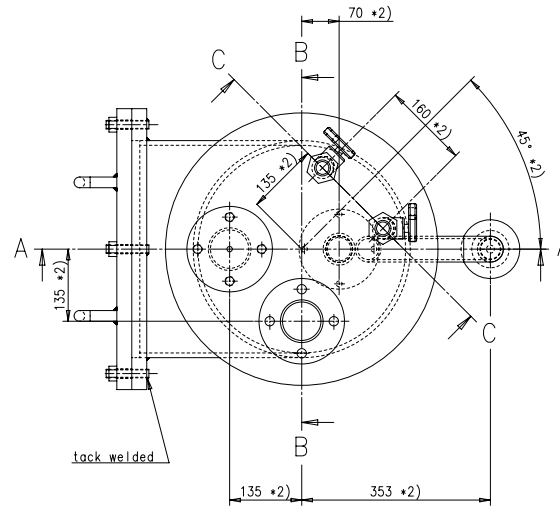
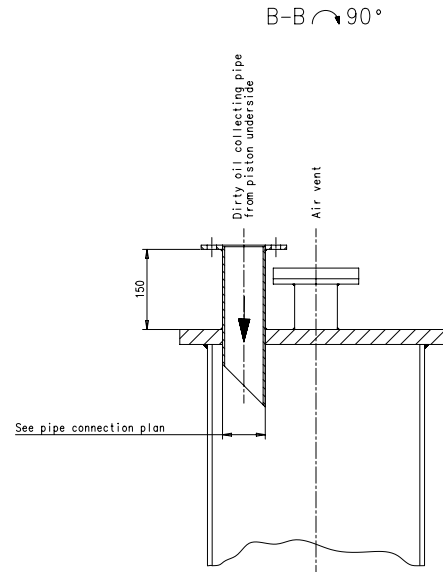
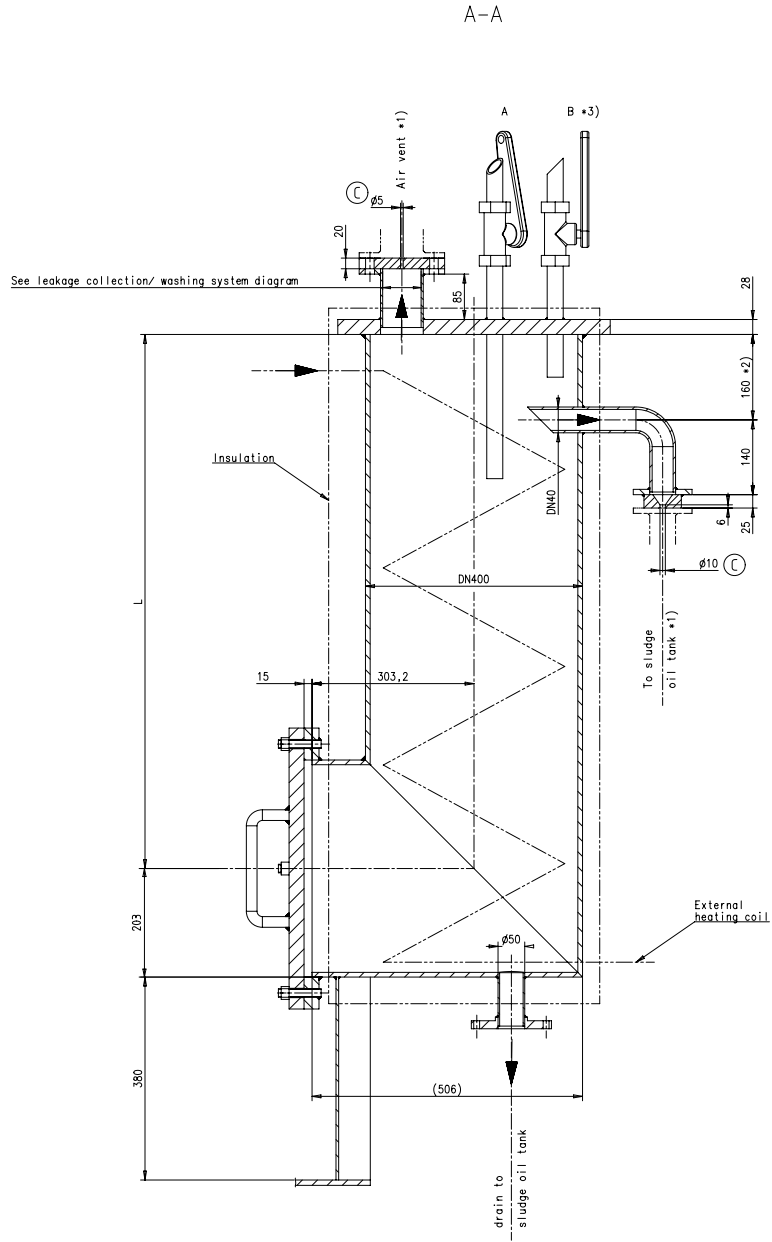
\*10) Installed as required (check with the pipe connection plan).

\*11) Drain connections 13 and 16 include 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.

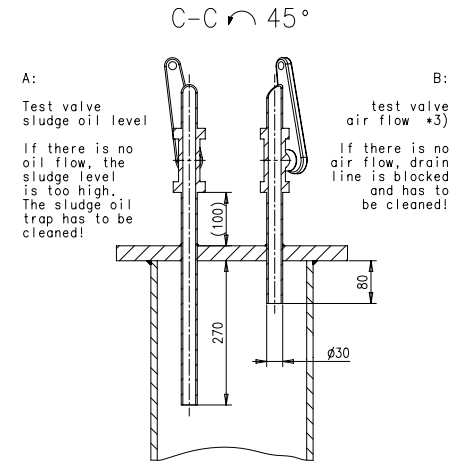
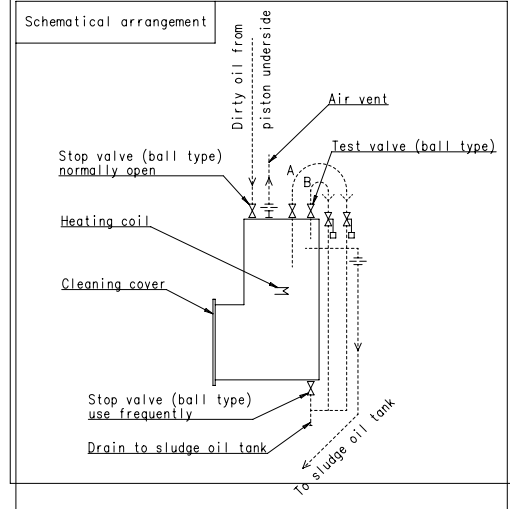
\*12) Optional, if requested by the flag state and/or class to achieve IGC compliance.

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

Free space for file		G-Code XXXXX		Main Drw.	
Standard ISO, JIS					
Mod.	Number	Drawn date	Number	Drawn date	Number
01	01	01	01	01	01
Product 6-12X92DF		LEAKAGE COLLECTION/WASHING SYS. SYSTEM DIAGRAM		LEAKAGE COLLECTION/WASHING SYS.	
Units mm kg NX		Basic Material		Net Weight 0,001	
Made 27.10.2020 Sudant Deogade		Scale -		Size A1	
Chd 26.04.2021 jgr101 Pickup		Design Group		Page 2/2	
Appt 26.04.2021 mhu019 Hug		9724		Material PAAD367981	
SURFACE PROTECTION SEE GROUP 0344		TOLERANCING PRINCIPLE ISO8015		Drawing ID DAAD136604	
GENERAL TOLERANCES ACCORDING TO ISO2768-mS				Rev. -	



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	6 bar
	Temperatur:	80°C	



Model		Free space for file		G-Code		Main	
A: EAAD08405122.01.2013		B: EAAD08784914.07.2017		C: EAAD08943912.07.2018		XXXXXX	
Number		Number		Number		Standard	
Drawn date		Drawn date		Drawn date		ISO, JIS	
Product		W-25		SLUDGE OIL TRAP		Net Weight 0.001	
Units		mm kg NX		Basic Material		Scale 1:5	
Made		31.08.2009 J.BAUMANN		Size		Page 1/1	
TOLERANCING PRINCIPLE ISO8015		Design Group		Material		107.425.369.500	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd 13.11.2009 JBA020 Baumann		Drawing		Rev. C	
				9724		107.425.369	

## MIDS WinGD- X92DF LEAKAGE-COLLECTION and WASHING-SYSTEM (DG9724)

### TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2021-05-04	DRAWING SET	First web upload

### DISCLAIMER

© Copyright by Winterthur Gas & Diesel Ltd.

All rights reserved. No part of this document may be reproduced or copied in any form or by any means (electronic, mechanical, graphic, photocopying, recording, taping or other information retrieval systems) without the prior written permission of the copyright owner.

THIS PUBLICATION IS DESIGNED TO PROVIDE AN ACCURATE AND AUTHORITATIVE INFORMATION WITH REGARD TO THE SUBJECT-MATTER COVERED AS WAS AVAILABLE AT THE TIME OF PRINTING. HOWEVER, THE PUBLICATION DEALS WITH COMPLICATED TECHNICAL MATTERS SUITED ONLY FOR SPECIALISTS IN THE AREA, AND THE DESIGN OF THE SUBJECT-PRODUCTS IS SUBJECT TO REGULAR IMPROVEMENTS, MODIFICATIONS AND CHANGES. CONSEQUENTLY, THE PUBLISHER AND COPYRIGHT OWNER OF THIS PUBLICATION CAN NOT ACCEPT ANY RESPONSIBILITY OR LIABILITY FOR ANY EVENTUAL ERRORS OR OMISSIONS IN THIS BOOKLET OR FOR DISCREPANCIES ARISING FROM THE FEATURES OF ANY ACTUAL ITEM IN THE RESPECTIVE PRODUCT BEING DIFFERENT FROM THOSE SHOWN IN THIS PUBLICATION. THE PUBLISHER AND COPYRIGHT OWNER SHALL UNDER NO CIRCUMSTANCES BE HELD LIABLE FOR ANY FINANCIAL CONSEQUENTIAL DAMAGES OR OTHER LOSS, OR ANY OTHER DAMAGE OR INJURY, SUFFERED BY ANY PARTY MAKING USE OF THIS PUBLICATION OR THE INFORMATION CONTAINED HEREIN.