

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

Net Weight

0,002

1

001

PAAD367833

LEAKAGE COLLECTION/WASHING SYS.

DAAD136484

0,001

Quantity PER ENGINE

SEQ NO

Material ID

Material Name

Dimension, Occ

Standard or Drawing

Basic Material Material Standard

Weight GR./NET

PAAD367838

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

5-8RT-flex50DF

LEAKAGE COLLECTION/WASHING SYS.

LEAKAGE COLLECTION/WASHING SYS.

Units

mm kg

NX

Basic Material

Net Weight

SURFACE PROTECTION SEE GROUP 0344

Made

23.10.2020

Sudant Deogade

Scale

-

Size

A3

Page

1/1

Material ID

TOLERANCING PRINCIPLE ISO8015

Chkd

26.04.2021

jpi101 Pickup

Design Group

Drawing ID

DAAD136496

Rev.

-

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Appd

26.04.2021

mhu019 Hug

9724

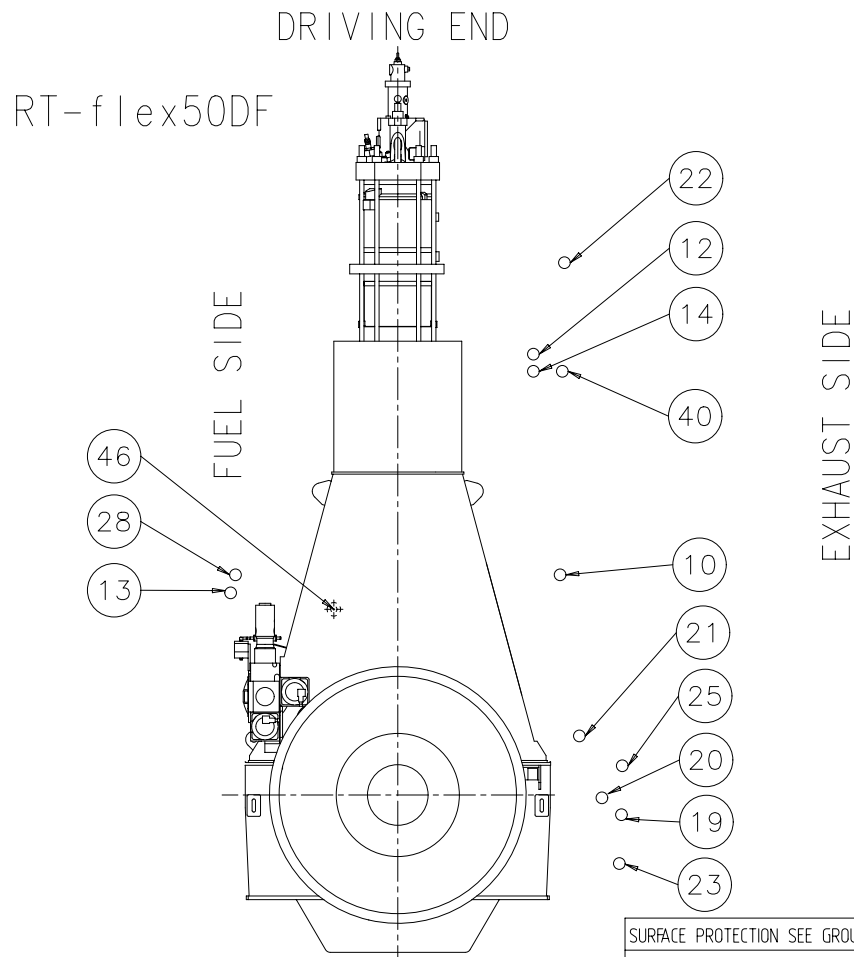
Approved

ASD - ASSEMBLY DRAWING - Internal

SPECIFICATION which must be met

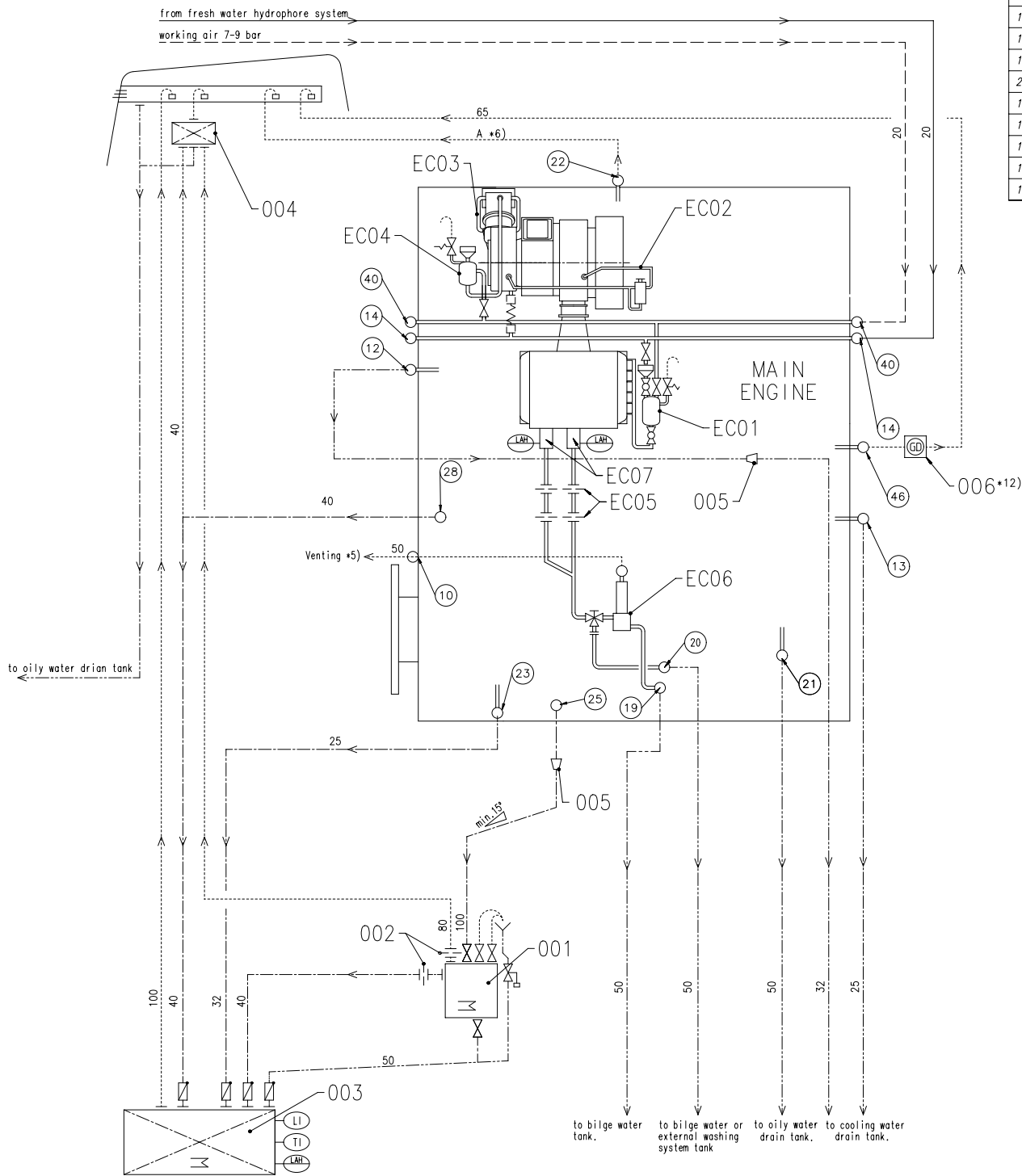
25	OUTLET - Dirty oil piston underside - Flow with SAC pressure to sludge oil trap or appropriate arrangement. - Min. inclination of drain pipe: 15°
28	OUTLET - Leakage oil gland box - Gravity flow to sludge tank or appropriate tank.
40	INLET - Air for cleaning plants TC and SAC - Working air, supply pressure: 7-9 bar
46	OUTLET - Venting crankcase - Venting to funnel - Must not be connected to other venting pipes.

10	OUTLET - SAC venting - Free flow outside of engine room.
12	OUTLET - Cylinder cooling water drain. - Gravity flow to cooling water drain tank or appropriate tank.
13	OUTLET - SAC cooling water drain. - Gravity flow to cooling water drain tank or appropriate tank.
14	INLET - Washing water SAC - From fresh water hydrophore system, supply pressure: 2.5 bar
19	OUTLET - SAC condensate water - Gravity flow to bilge water tank or appropriate tank.
20	OUTLET - Washing water from scavenge air coller. - Gravity flow to bilge water or chemical cleaning tank.
21	OUTLET - Oily water from scavenge air receiver - Gravity flow to oily water tank or appropriate tank.
22	OUTLET - Venting turbocharger - Venting to funnel - Minimum inclination according to TC suppliers specification - Must be not connected to other venting pipes.
23	OUTLET - Various leakages - 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./NE							
Free space for lic.														Q-Code XXXXXX		Main Drw.							
														Standard ISO; JIS									
		Modif.																					
		Number		Drawn date				Number		Drawn date				Number		Drawn date							
<div><div>WIN GD</div><div>Winterthur Gas & Diesel</div></div>				Product 5-8RT-flex50DF				LEAKAGE COLLECTION/WASHING SYS. SYSTEM DIAGRAM LEAKAGE COLLECTION/WASHING SYS.															
Units		mm kg		NX				Basic Material						Net Weight 0,001									
Made		23.10.2020 Sudant Deogade						Scale		-		Size		A3		Page		1/2		Material ID		PAAD367833	
Chkd		26.04.2021 jpi101 Pickup						Design Group		9724		Drawing ID		DAAD136484						Rev.		-	
Appd		26.04.2021 mhu019 Hug																					

SYSTEM PROPOSAL



Turbocharger type	A *6)	Min. Inclination
2x MET53MA	80	>3°
1x MET60MA	80	>3°
1x MET66ME	80	>3°
1x MET66S	80	>3°
2xA165	80	>5°
1xA170	65	>5°
1x A175	65	>5°
1x A180	80	>5°
1x A265	65	>5°
1x A165	65	>5°

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) *8)
006	Gas detector *12)

Pos.	ENGINE CONNECTIONS *2)
⑩	OUTLET - SAC venting *5)
⑫	OUTLET - Cylinder cooling water drain
⑬	OUTLET - SAC cooling water drain.
⑭	INLET - Washing water SAC
⑰	OUTLET - SAC condensate water *4) *11)
⑳	OUTLET - Washing water from scavenge air coller
㉑	OUTLET - Oily water from scavenge air receiver *11)
㉒	OUTLET - Venting turbocharger
㉓	OUTLET - Various leakages
㉔	OUTLET - Dirty oil piston underside
㉕	OUTLET - Leakage oil gland box
④	INLET - Air for cleaning TC and SAC
⑥	OUTLET - venting crankcase

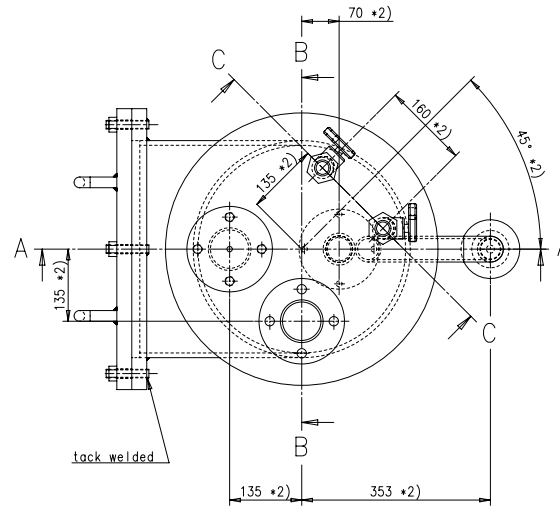
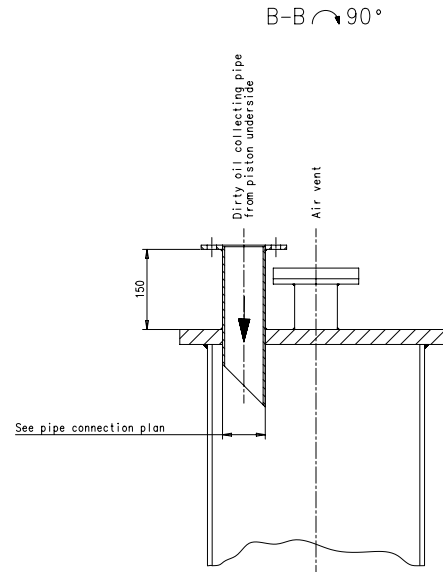
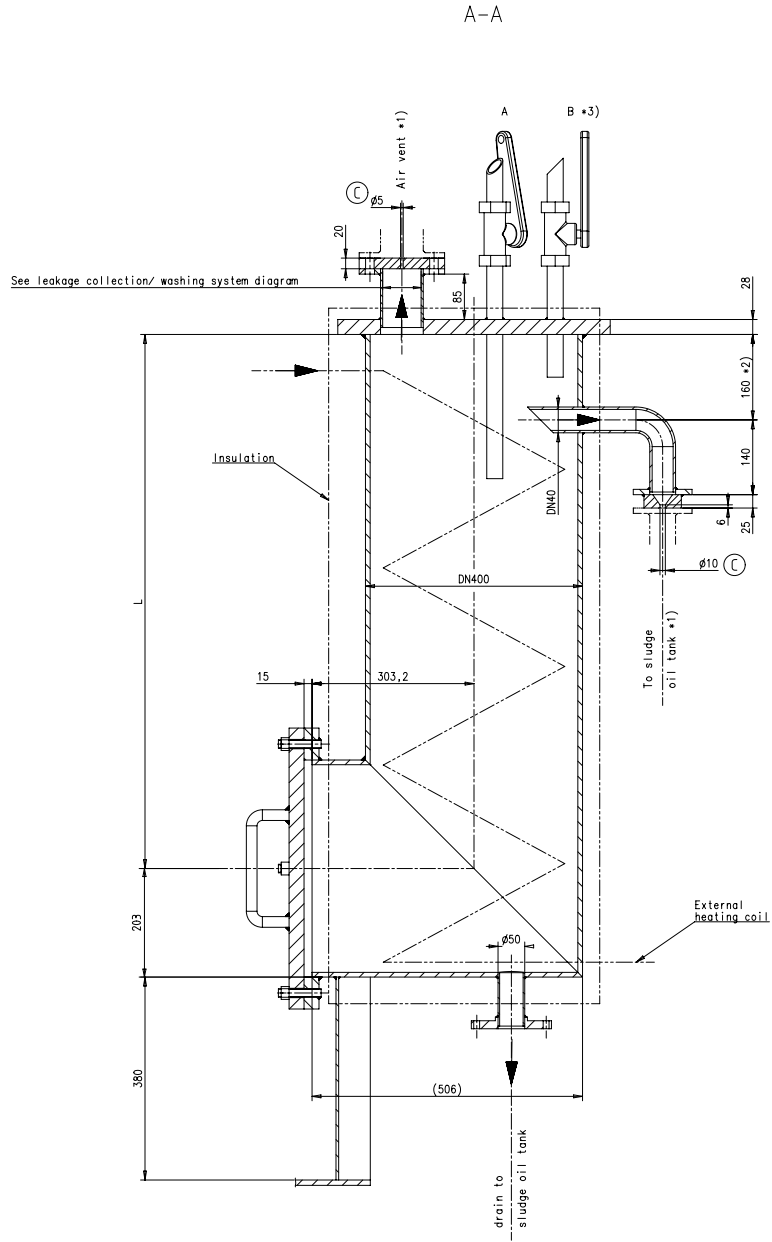
Pos.	ENGINE COMPONENTS *3)
EC01	Scavenge air cooler washing plant
EC02	Turbocharger compressor wheel washing plant *10)
EC03	Turbocharger turbine washing plant *10)
EC04	Dry cleaning device *10)
EC05	Throttling disc
EC06	Venting Unit
EC07	Condensate drain unit

Remarks

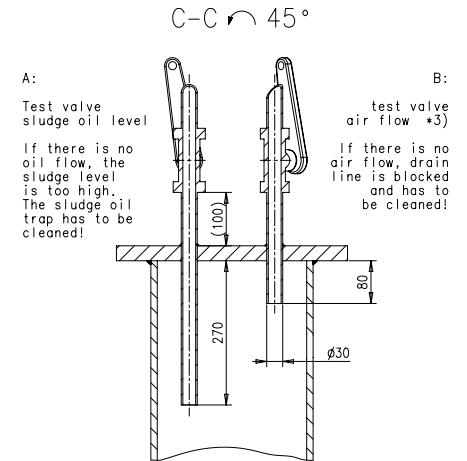
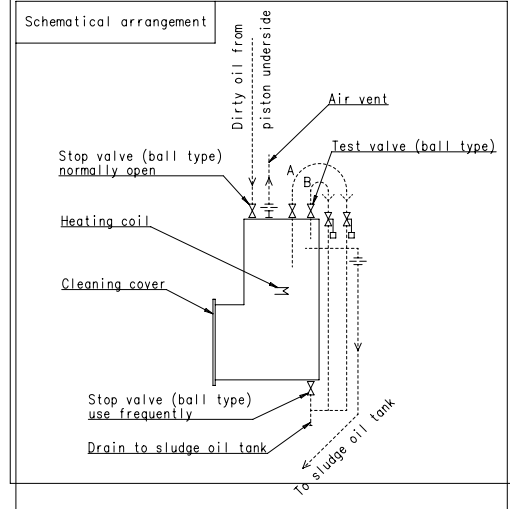
- Air vent and drain pipes must be fully functional at all inclination angles of the ship at which the engine must be operational.
- *1) To be delivered by external suppliers and to be installed by the shipyard.
- *2) Refer to the "Pipe Connection Plan" for the execution and location of the engine pipe 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.
- *8) Installed as required (check with the Pipe Connection Plan).
- *10) One unit per turbocharger.
- *11) Drain connections 19 and 21 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
- Water drain pipes
- Washing water pipes
- Dirty oil drain pipes
- Pipes on engine
- Pipe connections

Model		Free space for file		Q-Code		Main Drw.	
Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
				Product: 5-BRT-flex50DF LEAKAGE COLLECTION/WASHING SYS. SYSTEM DIAGRAM LEAKAGE COLLECTION/WASHING SYS.			
Units	mm	kg	NX	Basic Material	Scale	Size	Page
SURFACE PROTECTION SEE GROUP 0344 TOLERANCING PRINCIPLE ISO8015 GENERAL TOLERANCES ACCORDING TO ISO2768-mK				Made 23.10.2020 Sudant Deogade Chd 26.04.2021 jgr101 Pickup Appd 26.04.2021 mhu019 Hug			
Design Group 9724				Material ID PAAD367833 Drawing ID DAAD136484 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
	Temperatur:	6 bar 80°C



Free space for file		G-Code XXXXX		Main Drw.	
Standard ISO, JIS					
Mod.	A	EAAD08405122.01.2013	B	EAAD08784914.07.2017	C
Number	Drawn date	Number	Drawn date	Number	Drawn date
1	13.11.2009	2	13.11.2009	3	13.11.2009
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_WinGD-RT-flex50DF_LEAKAGE-COLLECTION_and_WASHING-SYSTEM

TRACK CHANGES

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

DISCLAIMER

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