

	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

107.246.286.500

LEAKAGE COLLECT./ WASHING SYSTEM

107.246.286

0,001

Quantity PER ENGINE

SEQ NO

Material ID

Material Name

Dimension, Occ

Standard or Drawing

Basic Material Material Standard

Weight GR./NET

107.246.285.200

Free space for lic.

Q-Code XXXXX

Main Drw. H

Modif.

A

7-77.597

30.06.2010

B

EAAD090104

16.12.2018

Material ID

Number

Drawn date

Number

Drawn date

Number

Drawn date

Number

Drawn date

WIN GD

Winterthur Gas & Diesel

Product RT-flex48T-D

LEAKAGE COLLECTION/WASHING SYS.

LEAKAGE COLLECTION/WASHING SYS.

Units mm kg

NX

Basic Material

Net Weight

SURFACE PROTECTION SEE GROUP 0344

Made 14.05.1998 T.LANDERT

Scale -

Size A3

Page 1/1

Material ID

TOLERANCING PRINCIPLE ISO8015

Chkd

Design Group

9724

Drawing ID 107.246.285

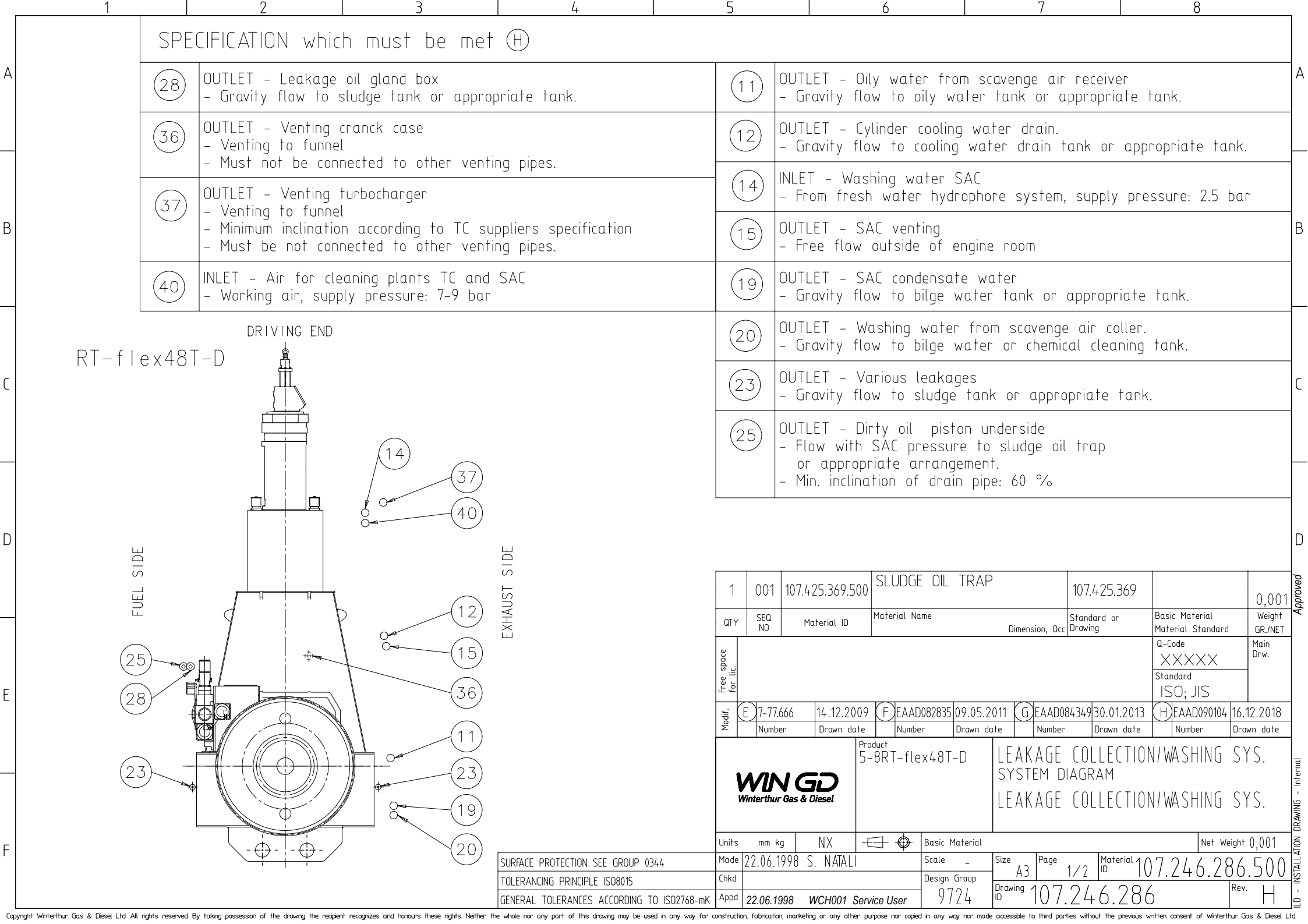
Rev. B

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

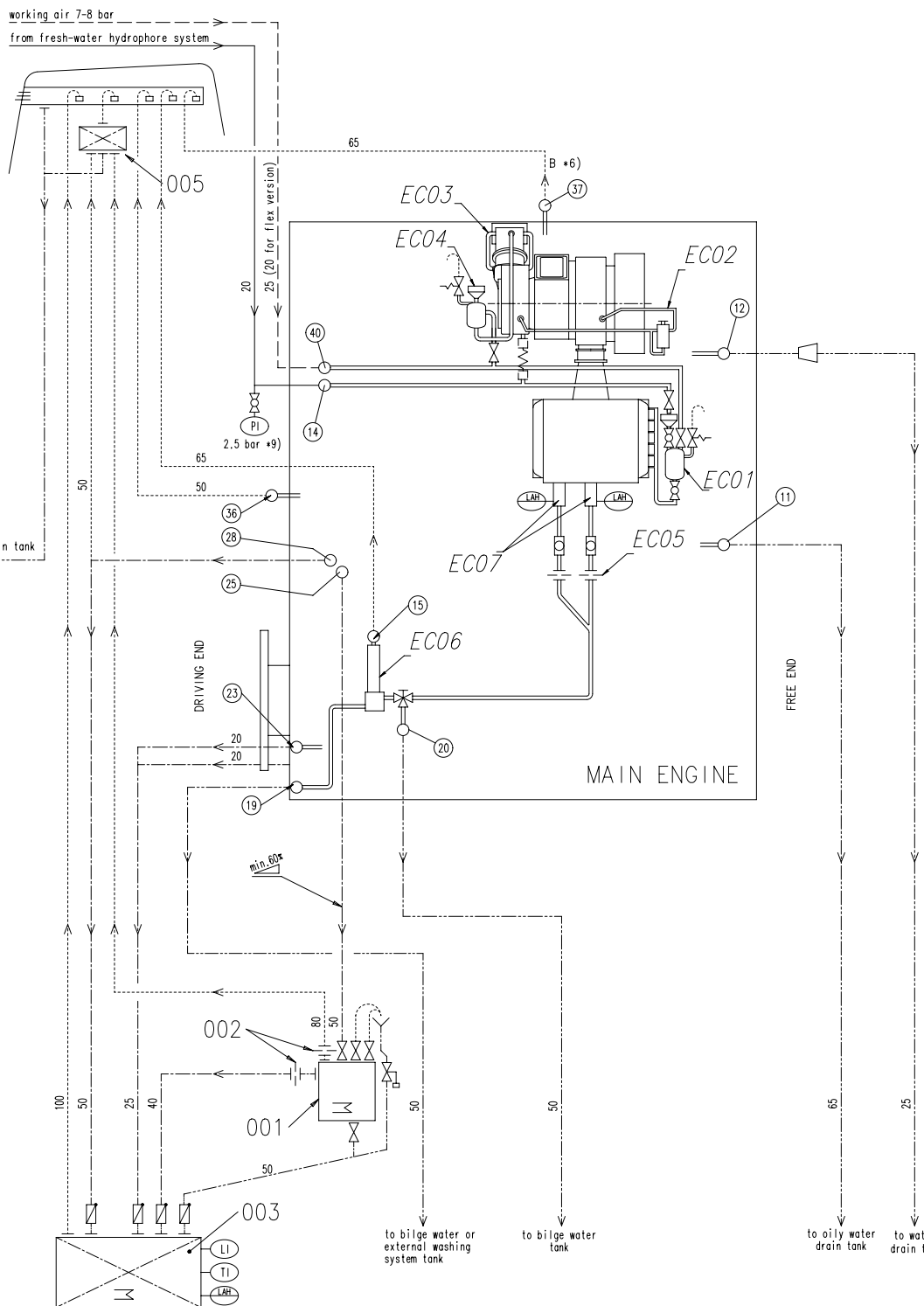
Appd 14.05.1998 WCH001 Service User

ASD - ASSEMBLY

DRAWING - Internal



SYSTEM PROPOSAL



Turbocharger type	B *6)	Min. Inclination
1x MET53MA	65	>3°
1x MET60MA	80	>3°

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

Pos. SYSTEM COMPONENTS *1) (H)

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)

Pos. ENGINE CONNECTIONS *2) (H)

11	OUTLET - Oily water from scavenge air receiver *10)
12	OUTLET - Cylinder cooling water drain
14	INLET - Washing water SAC
15	OUTLET - SAC venting *5)
19	OUTLET - SAC condensate water *4) *10)
20	OUTLET - Washing water from scavenge air cooler.
23	OUTLET - Various leakages
25	OUTLET - Dirty oil piston underside
28	OUTLET - Leakage oil gland box
36	OUTLET - venting crankcase
37	OUTLET - Venting turbocharger
40	INLET - Air for cleaning TC and SAC

Pos. ENGINE COMPONENTS *3) (H)

EC01	Scavenge air cooler washing plant
EC02	Turbocharger compressor wheel washing plant *4)
EC03	Turbocharger turbine washing plant *4)
EC04	Dry cleaning device *4)
EC05	Throttling disc
EC06	Venting Unit
EC07	Condensate drain unit

Remarks (H)

- 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).

*9) Pressure indicator only required for TPL TC.

*10) Drain connection 11 and 19 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.	7-77666	14.12.2009	F	EAAD082835	09.05.2011	G	EAAD083439	30.01.2013	H	EAAD090104	16.12.2018	
Number		Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date

WINGO

Wärmer Gas & Diesel

Product

5-BRT-flex48T-D

Q-Code

XXXXXX

Standard

ISO, JIS

Main Drw.

Units

mm kg

NX

Scale

-

Size

A1

Page

2/2

Material ID

107.246.286.500

Net Weight

0,001

Surf. PROTECTION

SEE GROUP 0344

MADE

22.06.1998

S. NATAI

TOLERANCING PRINCIPLE

ISO8015

Design Group

9724

Drawing ID

107.246.286

Rev.

H

GENERAL TOLERANCES

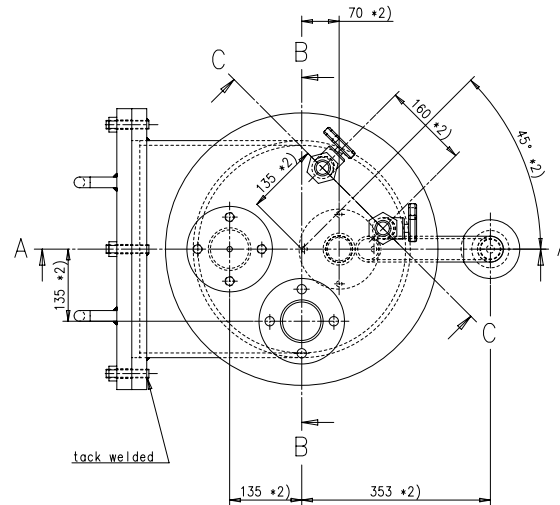
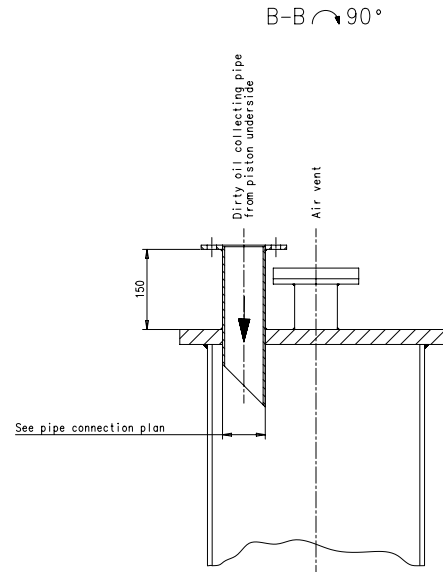
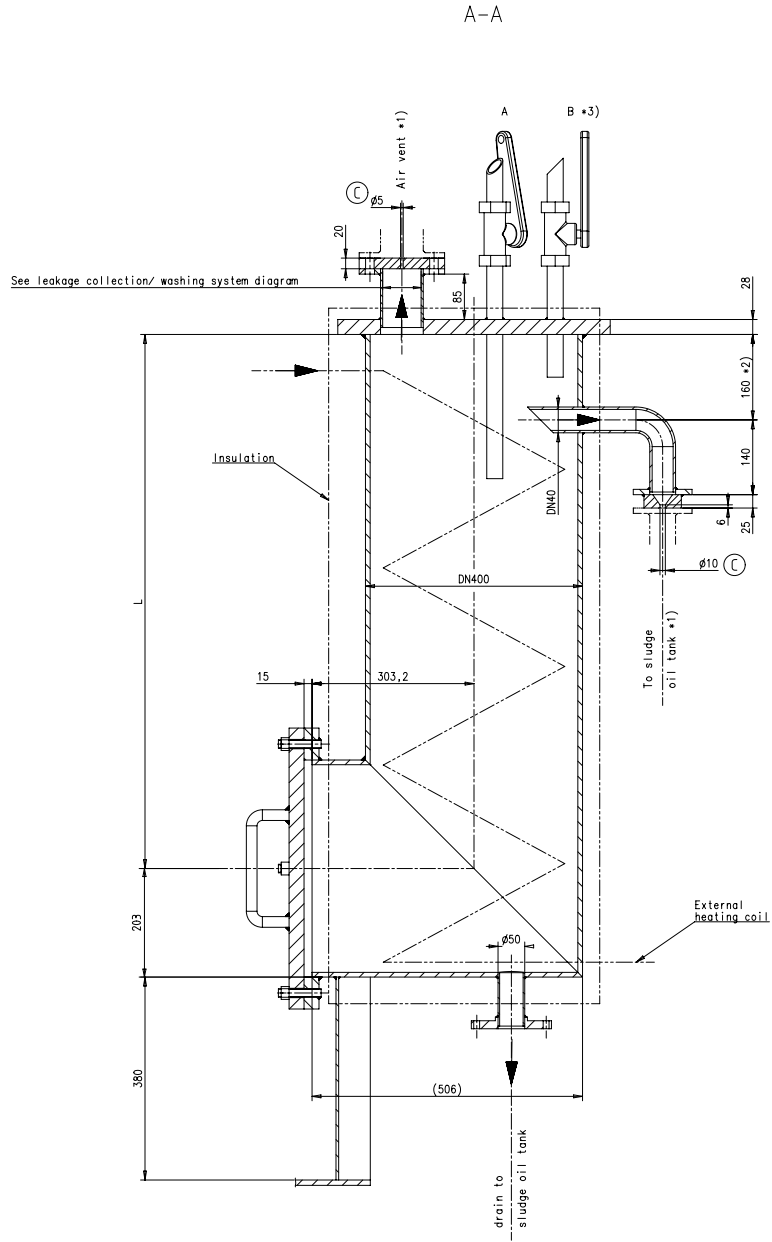
ACCORDING TO ISO2768-mK

Appd

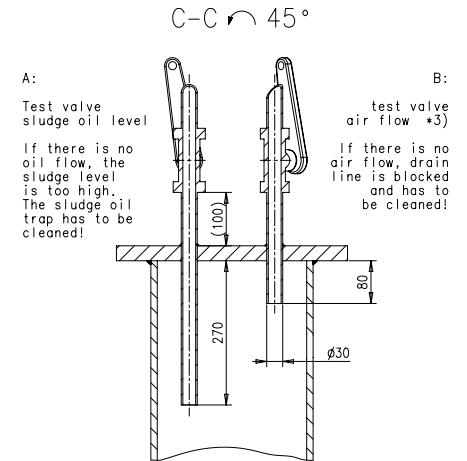
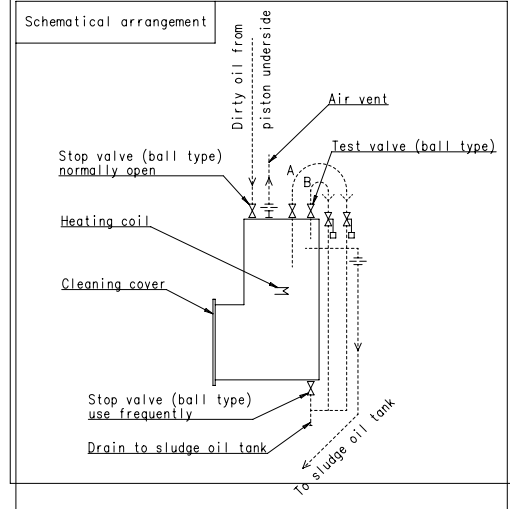
22.06.1998

WCH001

Service User



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		Main	
XXXXXX		Standard			
ISO: JIS					
Mod.		A		B	
EAAD08405122.01.2013		EAAD08784914.07.2017		EAAD08943912.07.2018	
Number		Drawn date		Number	
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31.08.2009		13.11.2009		13.11.2009	
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Child		Design Group		Design Group	
JBA020		JBA020		JBA020	
Appd		Appd		Appd	
13.11.2009		13.11.2009		13.11.2009	
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MIDS - WinGD RT-flex48T-D – Leakage Collection and Washing System

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2017-08-22	DRAWING SET	First web upload
2018-10-04	107.425.369	Sludge oil trap drg - new revision
2019-09-18	107.246.285 107.246.286	Main and system drg.- new revision

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