

Available executions

| Execution No. | Material ID | Number of Turbocharger |
|---------------|-------------|------------------------|
| 001 | PTAA037457 | 1 |

SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015

NOTE

The above executions can be configured using the Engine Configurator. Detailed guidance for the executions is provided within the Marine Installation Manual (MIM). If a specific execution of interest is not shown in the above table, then it may still be under development or not available. For further information or in case of a project-specific request, WinGD must be contacted directly.

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| | | | | | | | | | | |
|----------------|-----------|---------|----------|---------------|-----------|-----------------|---------------|---|---|--|
| Prod. | X62DF-2.1 | | | | | | | | | |
| Change History | | | | | | | | | | |
| | - | sna102 | | | | new Design | | | | |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Activity Code | E | C | |
| | | | | | | | | | | |



LEAKAGE COLLECTION/WASHING SYS.
MIDS master drawing

separate BOM available

Dimension

| | | | | | | | | | |
|--|---|--|----|-----------------|----------------|------------|--------------|----------------|-----|
| Scale | - | | NX | Units [mm] [kg] | Basic Material | Net Weight | 0.001 | | |
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| | | | | Qty per | A4 | Item ID | PTAA026089 | Drawing Page/s | 1/1 |

| SEQ NO | QTY | Item ID | Item Name | Dimension | Standard-ID | Basic Material | Net Weight |
|--------|-----|------------|---------------------------------|-----------|-------------|----------------|------------|
| 1 | 1 | PTAA037102 | LEAKAGE COLLECTION/WASHING SYS. | | | | 0.001 |

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|----------------|-------------------|---------|----------|---------------|------------|--------------------------------|----------------------------|
| Prod. | 5,6,7,8 X62DF-2.1 | | | | | | |
| Change History | | | | | | | |
| | A | npa101 | mhu019 | 23.08.2024 | CNAA006157 | Drawing updated | 4 3 |
| | - | sde101 | mhu019 | 29.06.2022 | CNAA002055 | Main Design/Drawing Introduced | - - |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved Activity Code E C |


| | |
|---------------|--|
| WIN GD | LEAKAGE COLLECTION/WASHING SYS. |
|---------------|--|

| | | | | | | | |
|--|-------------|-----------|----------------|---------|-------------------|------------|------------|
| Bill Of Material | | Dimension | | | | | |
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| | Main Design | Yes | Design Group | | 9724 | Q-Code | X X M |
| | Qty per | Engine | A4 | Item ID | PTAA037457 | | BOM Page/s |

| SEQ NO | QTY | Item ID | Item Name | Dimension | Standard-ID | Basic Material | Net Weight |
|--------|-----|-----------------|-----------------|-----------|-------------|----------------|------------|
| 001 | 1 | 107.425.369.500 | SLUDGE OIL TRAP | | | | 0.001 |

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | | | | |
|--|--|--|--|--|--|--|--|

| Proc. | X62DF-2.1 | | | | | | | | | |
|----------------|-----------|---------|----------|---------------|------------|-----------------|----------|---------------|---|---|
| Change History | D | npa101 | mhu019 | 23.08.2024 | CNAA006157 | Drawing updated | | | 4 | 3 |
| | C | npa101 | mhu019 | 13.06.2024 | CNAA005249 | Drawing updated | | | 4 | 3 |
| | B | dki021 | mhu019 | 19.12.2022 | CNAA002848 | Drawing Updated | | | 4 | 3 |
| | - | sde101 | mhu019 | 29.06.2022 | CNAA002055 | new Design | | | - | - |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved | Activity Code | E | C |

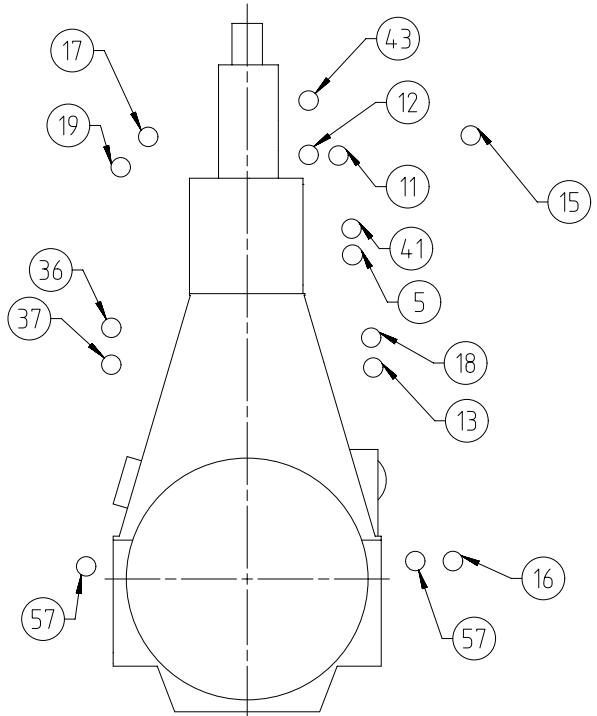
| | |
|--|---|
|  | LEAKAGE COLLECTION/WASHING SYS. TC 1 |
|--|---|

| Bill Of Material | | Dimension | | | | | | | |
|--|-------------|-----------|---------|----------------|------|--------|------------|----------|-----|
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| | Main Design | | | Design Group | 9724 | Q-Code | X X M | Standard | WDS |
| | Qty per | A4 | Item ID | PTAA037102 | | | BOM Page/s | 01/01 | |

SPECIFICATION which must be met:

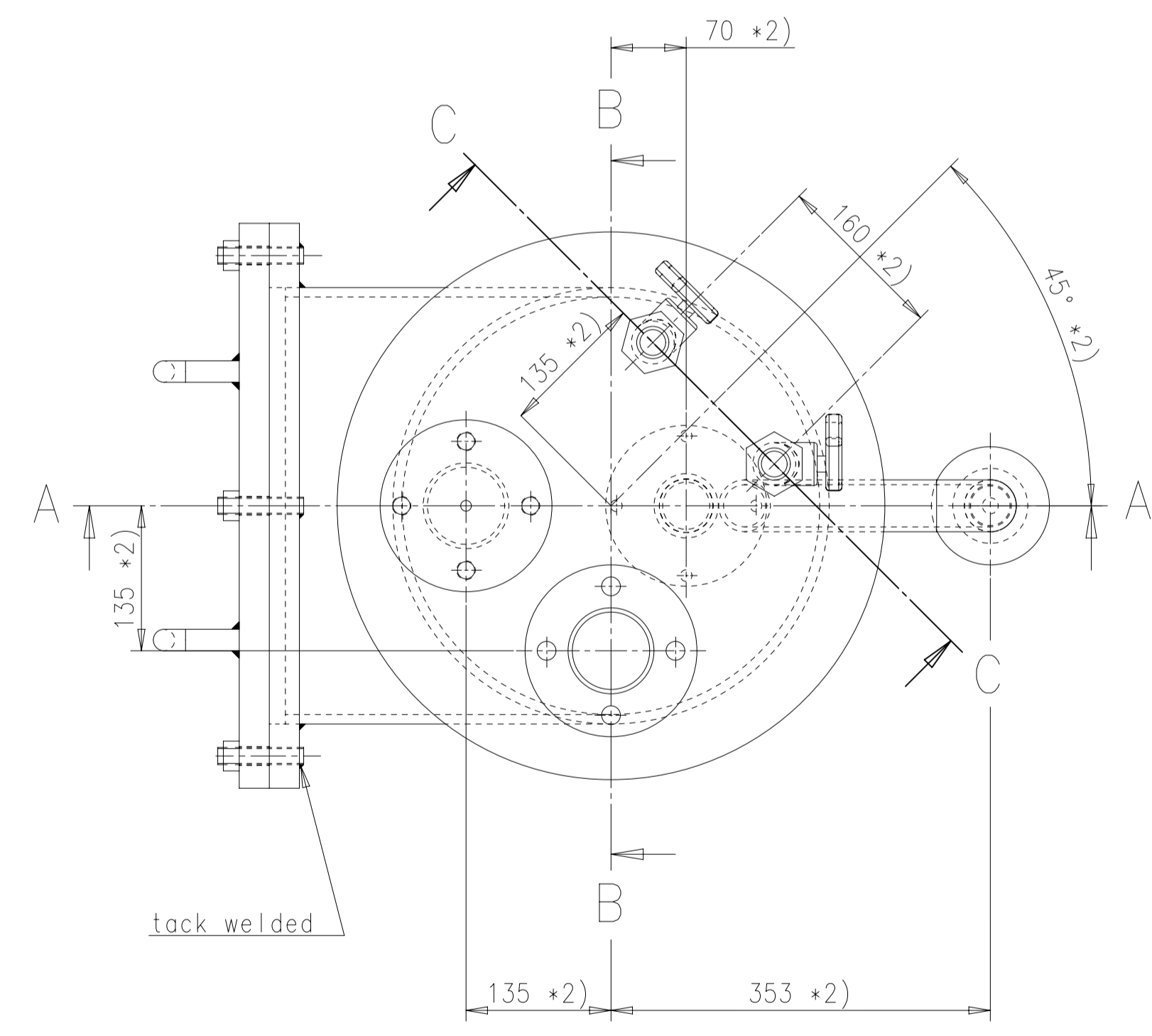
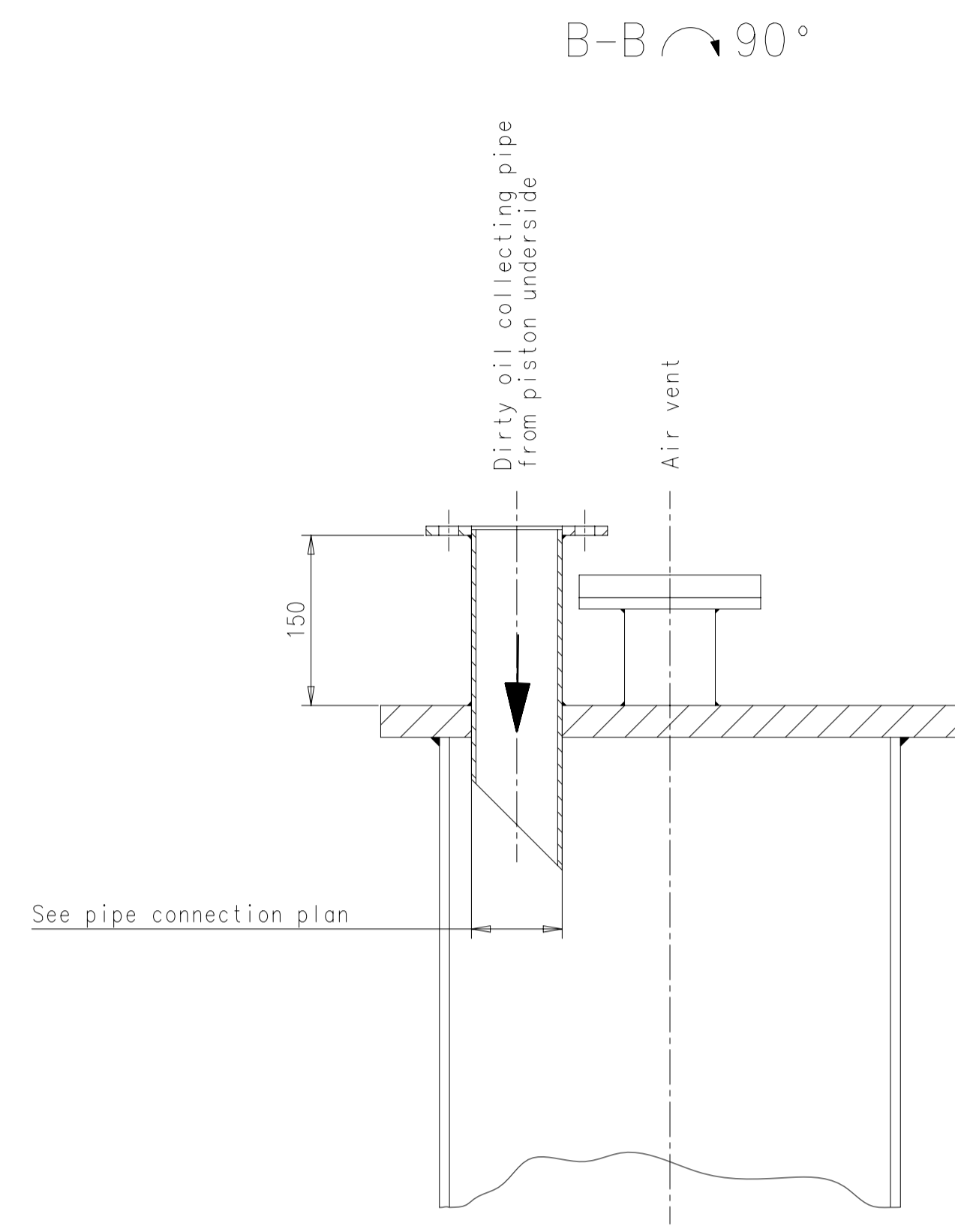
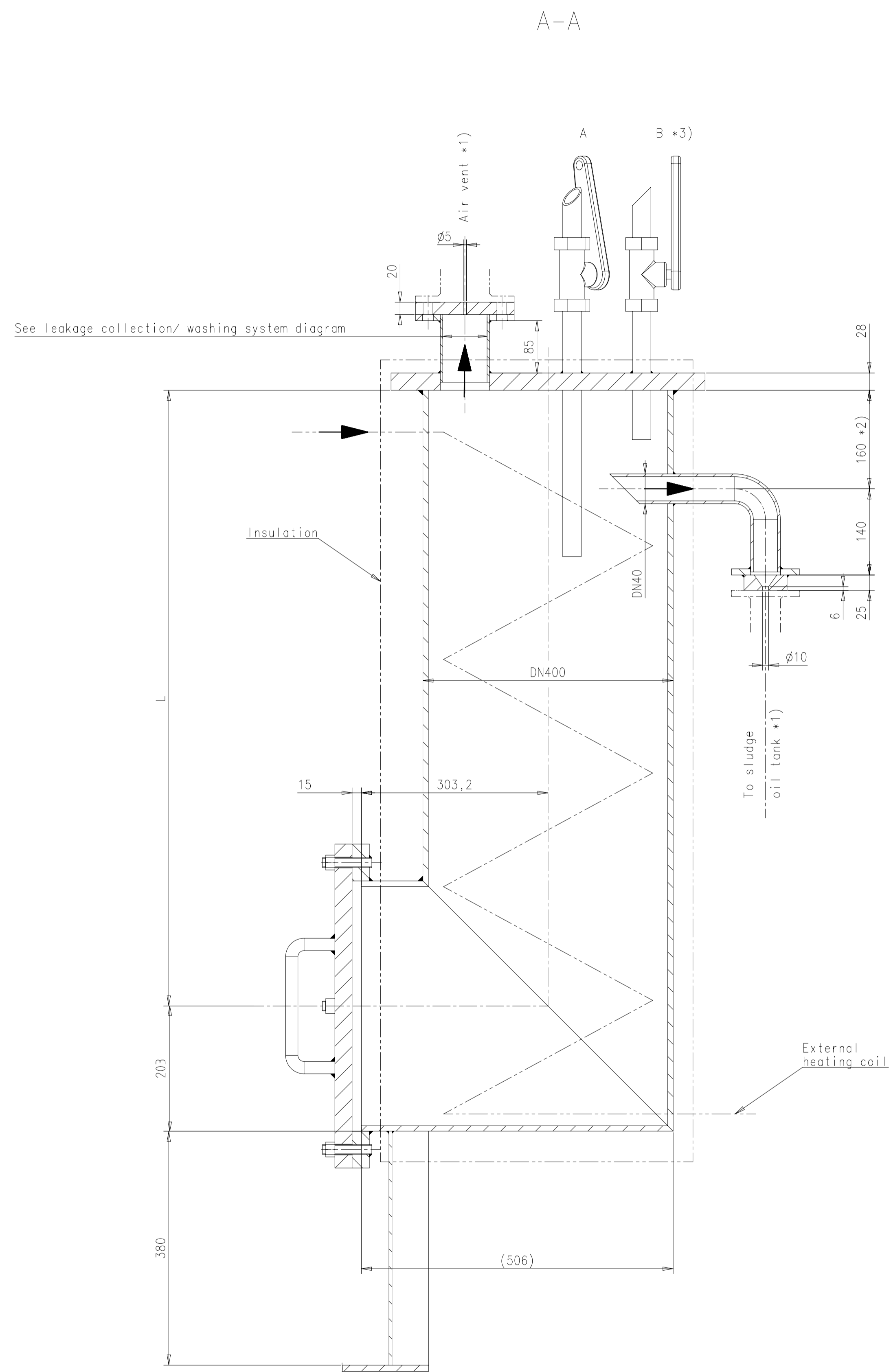
- 18 OUTLET - SAC venting
- Free flow outside of engine room
- 19 OUTLET - SAC condensate water, iCER
- To EGC wastewater holding tank during iCER operation
- The system components downstream of this connection must be made of stainless steel
- 36 OUTLET - Dirty oil piston underside
- Flow with SAC pressure to sludge oil trap or appropriate arrangement
- Min. inclination of drain pipe: 15°
- 37 OUTLET - Leakage oil gland box
- Gravity flow to sludge tank or appropriate tank
- 41 OUTLET - Venting crankcase
- 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 not be 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 - SAC washing water
- Washing water supply from an external washing system, which must be installed on the ship side
D - Washing water properties: Fresh water mixed with a chemical washing agent
Mixing ratio according to chemical washing agent suppliers specification
- Washing water supply pressure: 3.0 bar
- Washing water temperature: 50 °C - 60 °C
- Washing water pump circulation rate: 4.5 m³/h
- 12 INLET - Air for cleaning plants TC
- Working air, supply pressure: 7 - 9 bar
- 13 OUTLET - Oily water from scavenge air receiver
- Gravity flow to oily water tank or appropriate tank
- 15 INLET - SAC wetting water
- Wetting water supply: From clean water holding tank or SAC wetting buffer tank
- Wetting water supply pressure: max. 10 bar
- Wetting water circulation rate: 500 - 1000 l/h per SAC
- 16 OUTLET - SAC condensate water
- Gravity flow to standard SAC drain arrangement according to shipyard's preference
- 17 OUTLET - SAC washing water
D - During SAC cleaning to the chemical washing water circulation tank, which is part of the external washing system, as installed on the ship side



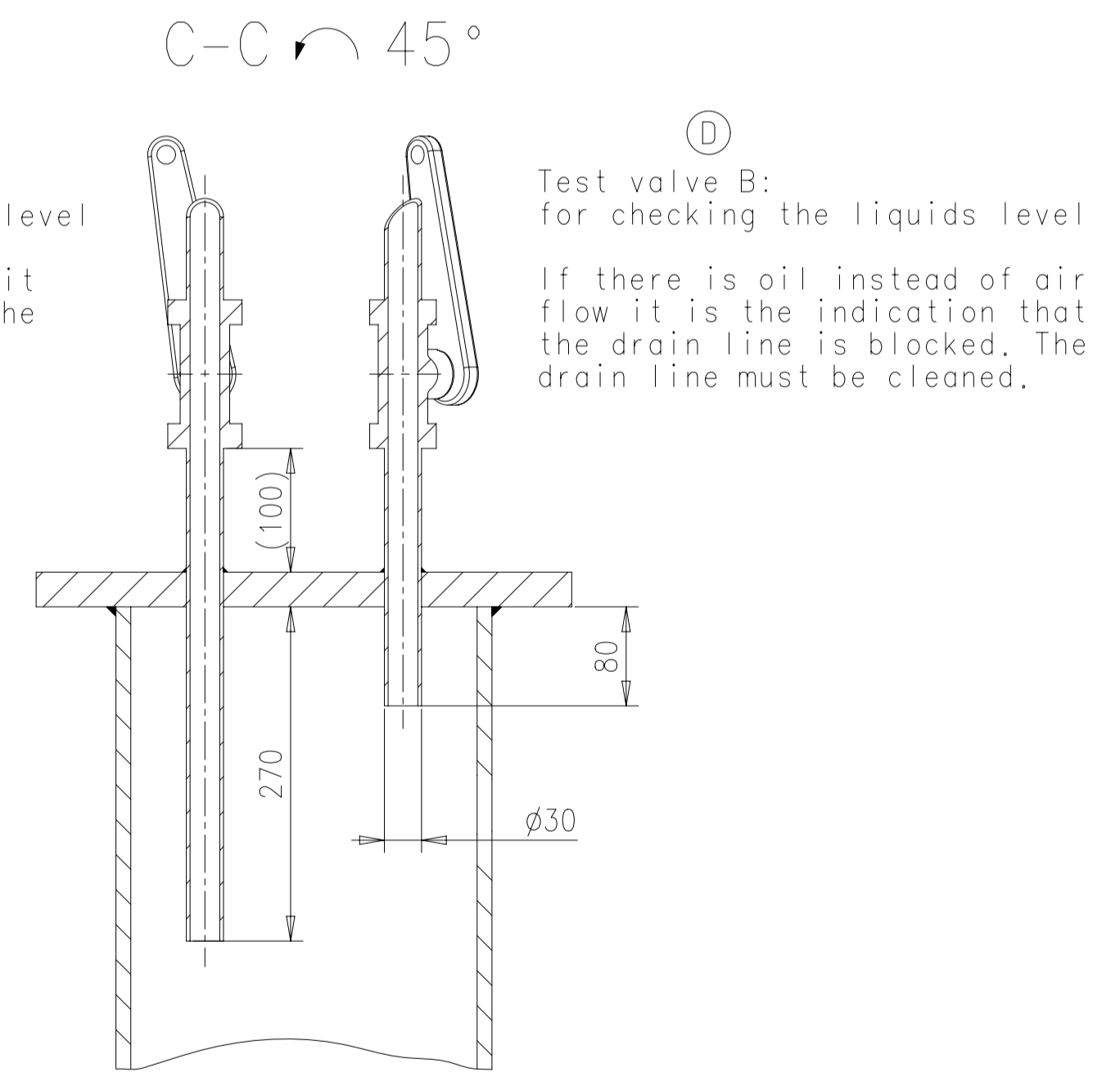
SURFACE PROTECTION SEE GROUP 0344
 TOLERANCING PRINCIPLE ISO8015
 GENERAL TOLERANCES ACCORDING TO ISO2768-mK

| | | | | | | | | | | | |
|------------------------|--|----------|---------------|-----------------|-----------------|---|------------|---------------|-------|----------------|-----|
| Prod. | X62DF-2.1 | | | | | | | | | | |
| Change History | D | npa101 | mhu019 | 23.08.2024 | CNA00617 | Drawing updated | 4 | 3 | | | |
| | C | npa101 | mhu019 | 13.06.2024 | CNA005249 | Drawing updated | 4 | 3 | | | |
| | B | dki021 | mhu019 | 19.12.2022 | CNA002848 | Drawing Updated | 4 | 3 | | | |
| | - | sde101 | mhu019 | 29.06.2022 | CNA002055 | new Design | - | - | | | |
| Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved | | Activity Code | E | C | |
| WIN GD | | | | | | LEAKAGE COLLECTION/WASHING SYS. TC 1 | | | | | |
| separate BOM available | | | | | | Dimension | | | | | |
| Scale | - | | NX | Units [mm] [kg] | Basic Material | | | Net Weight | 0.001 | | |
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| Qty per | | | | | A3 | Item ID | PTAA037102 | | | Drawing Page/s | 1/2 |



Ⓓ
Test valve A:
for checking the solids level

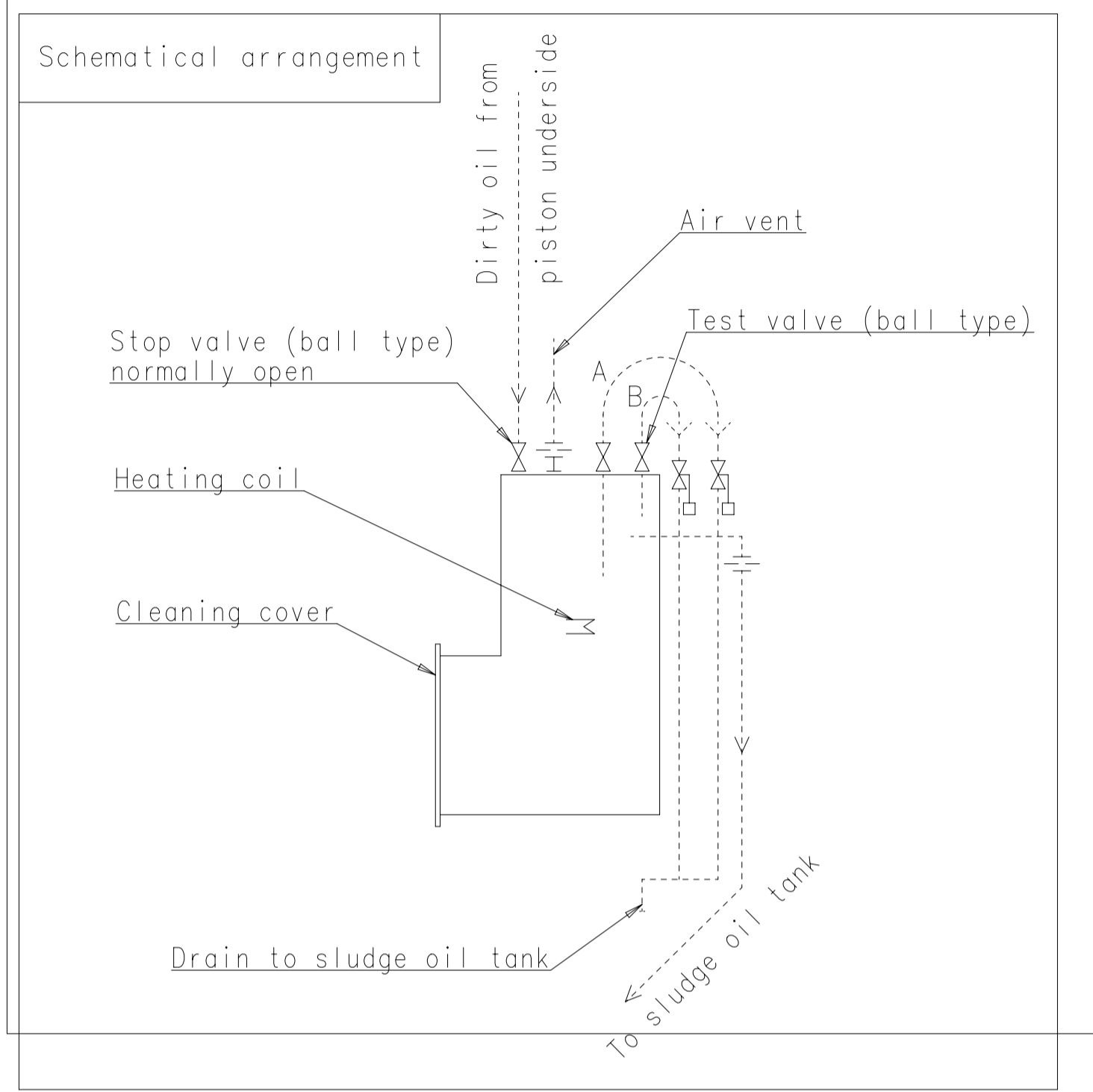
If there is no oil flow it is the indication that the solid level is too high. The sludge oil trap must be cleaned.



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: | 150 l | 100 l |
| | Working pressure: | 4 bar | |
| | Testing pressure: | 6 bar | |
| | Temperatur: | 80°C | |



| | | | | | | | | | |
|---|------------------------|-------------------------------|------------------------------------|--|-----------------------------|--|----------------|-------------------|-----|
| Prof. | CX40DF RT-flex48T-D | RT-flex50-D RT-flex48T-D | RT-flex58T-D V1 RT-flex58T-D V2 | RT-flex58T-E RT-flex68-D | RT-flex68-D_L RT-flex82C | RT-flex82SCR-HHM-PILOT RTA68-D | X35-B [...] | | |
| Change History | □ | sde101 | mhu019 | 19.01.2022 | CNA001373 | drawing updated | | 4 | 3 |
| | □ | sde101 | mhu019 | 10.09.2018 | EAAD089439 | Legacy information. See corresponding ChangeNotice | | 4 | - |
| | □ | dkl021 | mhu019 | 14.07.2017 | EAAD087849 | Legacy information. See corresponding ChangeNotice | | 4 | - |
| | - | WinGD | jba029 | 13.11.2009 | - | | | - | - |
| Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved | | Activity Code | E C |
| WINGD Winterthur Gas & Diesel | | SLUDGE OIL TRAP | | | | | | | |
| Scale 1:5 | | Units [mm] [kg] | | Basic Material | | Net Weight | | 0.001 | |
| SURFACE PROTECTION SEE GROUP 0344 | | TOLERANCING PRINCIPLE ISO8015 | | GENERAL TOLERANCES ACCORDING TO ISO2768-mK | | Main Design | | Design Group 9724 | |
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| | | | | | | Q-Code XXXXX | | Standard WDS | |
| | | | | | | Drawing Page/s | | 1/1 | |

Available executions

| Execution No. | Material ID | Cylinder No. |
|---------------|-------------|--------------|
| 001 | PAAD359821 | 5-7 |

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

NOTE

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 contracted before April 2022

| | | | | | | | | | |
|----------------|------|---------|----------|---------------|-----------|-----------------|---------------|---|---|
| Prod. | | | | | | | | | |
| Change History | | | | | | | | | |
| | - | sna102 | | | | new Design | | | |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Activity Code | E | C |



LEAKAGE COLLECTION/WASHING SYS.
 MIDS master drawing

separate BOM available

Dimension

| | | | | | | | | | |
|--|---|--|----|-----------------|----------------|------------|--------------|----------|----------------|
| Scale | - | | NX | Units [mm] [kg] | Basic Material | Net Weight | 0.001 | | |
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| | | | | Qty per | A4 | Item ID | PTAA026089 | | Drawing Page/s |

| SEQ NO | QTY | Item ID | Item Name | Dimension | Standard-ID | Basic Material | Net Weight |
|--------|-----|------------|---------------------------------|-----------|-------------|----------------|------------|
| 1 | 1 | PAAD359593 | LEAKAGE COLLECTION/WASHING SYS. | | | | 0.001 |

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| | | | | | | | | |
|----------------|-----------------|---------|----------|---------------|-----------|-----------------|---------------|---|
| Prod. | 5,6,7 X62DF-2.1 | | | | | | | |
| Change History | | | | | | | | |
| | | | | | | | | |
| | - | dkl021 | mhu019 | 04.12.2020 | | - | | - |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Activity Code | E |


| | |
|--|---------------------------------|
|  | LEAKAGE COLLECTION/WASHING SYS. |
|--|---------------------------------|

| | | | | | | | | | |
|--|-------------|-----------|----------------|---------|------------|------------|------------|----------|-----|
| Bill Of Material | | Dimension | | | | | | | |
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| | Main Design | Yes | Design Group | | 9724 | Q-Code | XXXXX | Standard | WDS |
| | Qty per | Engine | A4 | Item ID | PAAD359821 | | BOM Page/s | 01/01 | |

| SEQ NO | QTY | Item ID | Item Name | Dimension | Standard-ID | Basic Material | Net Weight |
|--------|-----|-----------------|-----------------|-----------|-------------|----------------|------------|
| 001 | 1 | 107.425.369.500 | SLUDGE OIL TRAP | | | | 0.001 |

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| | | | | | | | | |
|----------------|-----------|---------|----------|---------------|----------------------|-----------------|----------|---------------|
| Prod. | X62DF-2.1 | | | | | | | |
| Change History | B | sde101 | mhu019 | 08.03.2022 | CNA001599 | Drawing Updated | 4 | 3 |
| | A | mhu019 | dst009 | 20.12.2021 | CNA001054 | Drawing Updated | 4 | 3 |
| | - | dkl021 | mhu019 | 04.12.2020 | | - | - | - |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | Approved | Activity Code |

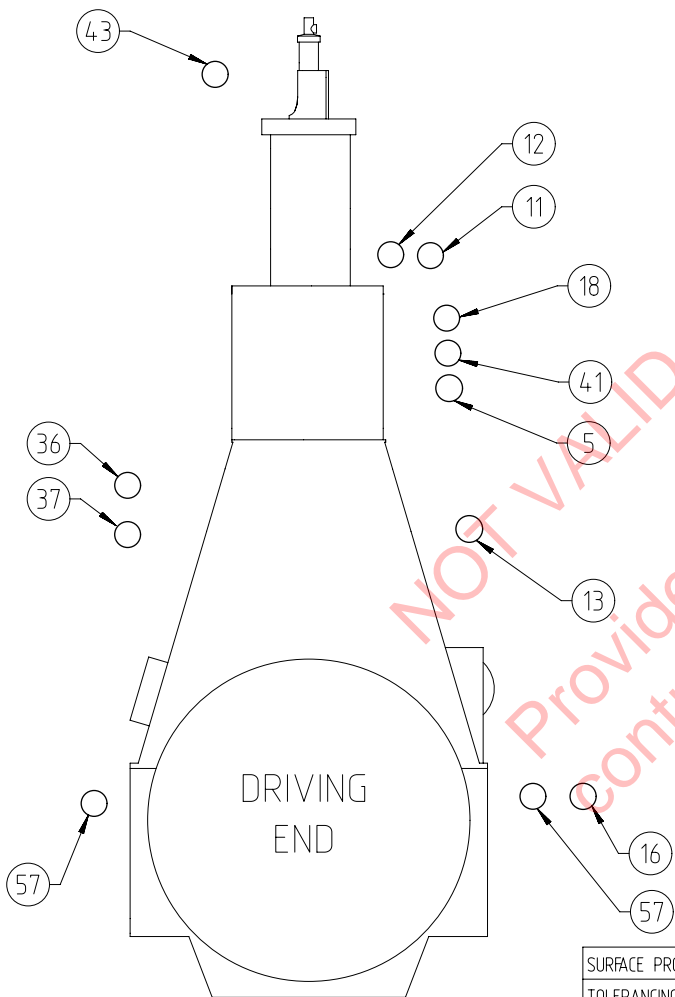
| | |
|--|---------------------------------|
|  | LEAKAGE COLLECTION/WASHING SYS. |
|--|---------------------------------|

| | | | | | | |
|--|-------------|--------------|----------------|------------|-------|------------|
| Bill Of Material | | Dimension | | | | |
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| | Main Design | Design Group | 9724 | Q-Code | XXXXX | |
| | Qty per | A4 | Item ID | PAAD359593 | | BOM Page/s |
| | | | | Standard | WDS | |

SPECIFICATION which must be met:

- ④3 OUTLET - Venting turbocharger
 - Venting to funnel
 - Minimum inclination according to TC suppliers specification
 - Must not be connected to other venting pipes.
- ⑤7 OUTLET - Various leakages
 - Gravity flow to sludge tank or appropriate tank.

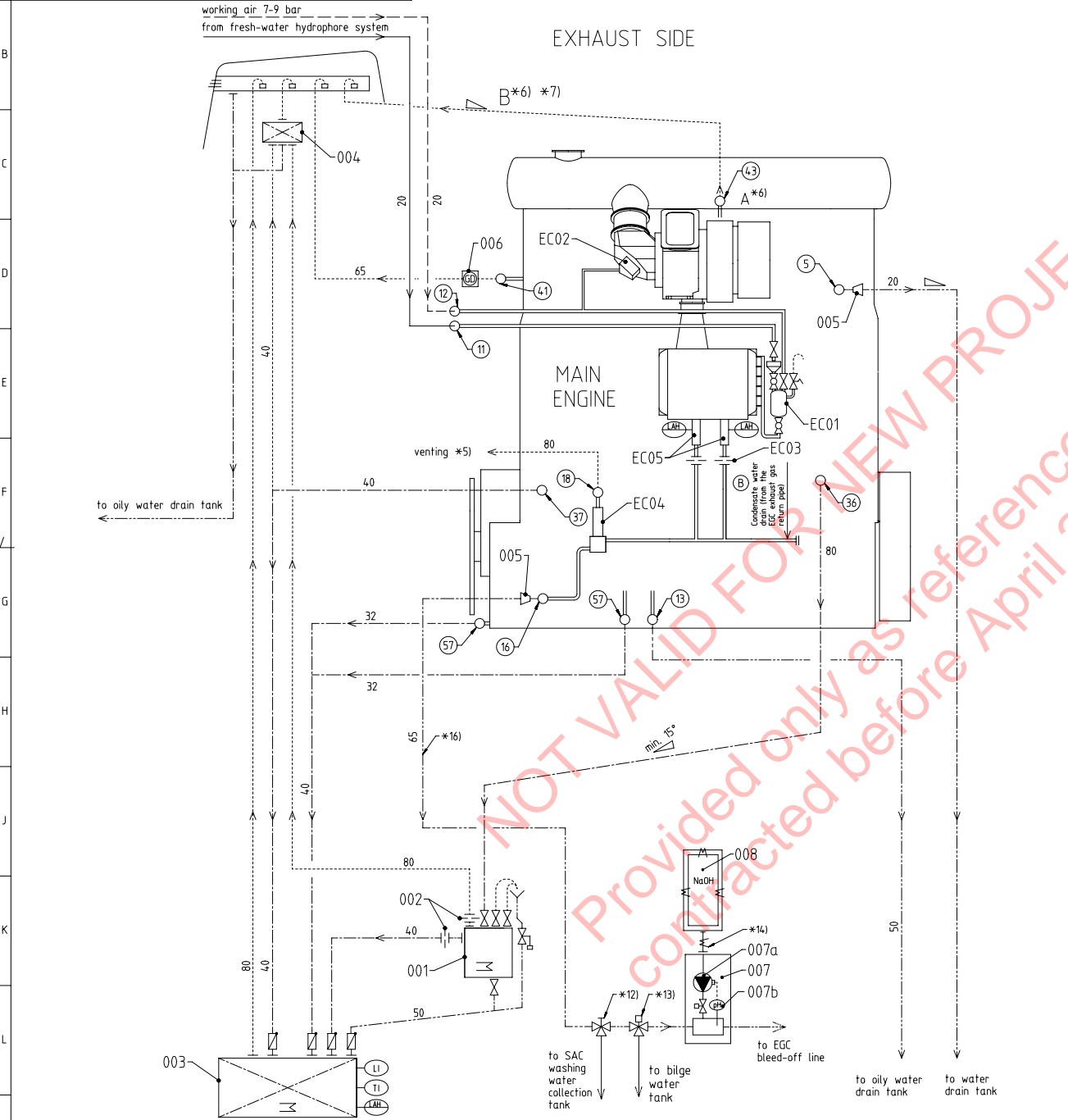
- ⑤ OUTLET - Cylinder cooling water drain.
 - Gravity flow to cooling water drain tank or appropriate tank.
- ①1 INLET - Washing water SAC
 - From freshwater hydrophore system
- ①2 INLET - Air for cleaning plants TC and SAC
 - Working air, supply pressure: 7-9 bar
- ①3 OUTLET - Oily water from scavenge air receiver
 - Gravity flow to oily water tank or appropriate tank.
- ①6 OUTLET - SAC condensate water
 - Gravity flow to bilge water tank or washing water collection tank or to the EGC bleed-off line depending on the operation mode.
 - The system components downstream of this connection until the pH-neutralisation dosing unit must be designed for low pH operation.
- 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: 15°
- ③7 OUTLET - Leakage oil gland box
 - Gravity flow to sludge tank or appropriate tank.
- ④1 OUTLET - Venting crankcase
 - Venting to funnel
 - Must not be connected to other venting pipes.



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 Provided only as reference
 Contracted before April 2022

| | | | | | | | | | | | |
|--|--------------|--|------------|-----------------|----------------|-----------------|----------|------------|----------|---------------|---|
| Prod. | X62DF-2.1 | | | | | | | | | | |
| Change History | B | sde101 | mhu019 | 08.03.2022 | CNA001599 | Drawing Updated | | | 4 | 3 | |
| | A | mhu019 | dst009 | 20.12.2021 | CNA001054 | Drawing Updated | | | 4 | 3 | |
| | - | dki021 | mhu019 | 04.12.2020 | | | | | - | - | |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | | | Approved | Activity Code | E |
| Winterthur Gas & Diesel | | LEAKAGE COLLECTION/WASHING SYS. | | | | | | | | | |
| separate BOM available | | Dimension | | | | | | | | | |
| Scale | - | | NX | Units [mm] [kg] | Basic Material | | | Net Weight | 0.001 | | |
| Main Design | Design Group | | 9724 | Q-Code | XXXXXX | | Standard | WDS | | | |
| Qty per | A3 | Item ID | PAAD359593 | | Drawing | Page/s | | | | 1/2 | |
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| TOLERANCING PRINCIPLE ISO8015 | | | | | | | | | | | |
| GENERAL TOLERANCES ACCORDING TO ISO2768-mK | | | | | | | | | | | |

NOTE
Further installation details and variants can be found listed in the Marine Installation Manual (MIM), which provides also the acronyms used in this drawing set. The piping symbols are explained by the piping symbol key as included in the drawing set "Various Installation Items".



EXHAUST SIDE

MAIN ENGINE

| Turbocharger type | A** | B** | Min. Inclination |
|-------------------|-----|-----|------------------|
| 1 x A170-L | 65 | 65 | ≥ 5° |
| 1 x A175-L | 65 | 65 | ≥ 5° |
| 1 x A180-L | 80 | 80 | ≥ 5° |
| 1 x A185-L | 80 | 80 | ≥ 5° |
| 1 x A270-L | 65 | 65 | ≥ 5° |
| 1 x A275-L | 65 | 65 | ≥ 5° |
| 1 x A280-L | 80 | 80 | ≥ 5° |
| 1 x MET53MB | 65 | 65 | ≥ 3° |
| 1 x MET60MB | 80 | 80 | ≥ 3° |
| 1 x MET66MB | 80 | 80 | ≥ 3° |
| 1 x MET71MB | 80 | 80 | ≥ 3° |
| 1 x MET83MB | 100 | 100 | ≥ 3° |
| 2 x A165-L | 65 | 80 | ≥ 5° |
| 2 x A170-L | 65 | 100 | ≥ 5° |
| 2 x A175-L | 65 | 100 | ≥ 5° |
| 2 x A265-L | 65 | 80 | ≥ 5° |
| 2 x A270-L | 65 | 100 | ≥ 5° |
| 2 x MET42MB | 50 | 65 | ≥ 3° |
| 2 x MET48MB | 65 | 80 | ≥ 3° |
| 2 x MET53MB | 65 | 80 | ≥ 3° |
| 2 x MET60MB | 80 | 100 | ≥ 3° |

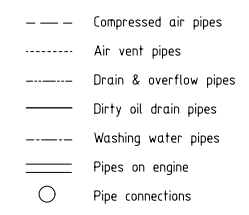
| Pos. | SYSTEM COMPONENTS *1) |
|------|--|
| 001 | Sludge oil trap (link to detail drawing on the partlist of this drawing). |
| 002 | Throttling disc (size shown on separate sludge oil trap drawing) |
| 003 | Sludge or appropriate tank |
| 004 | Air vent manifold |
| 005 | Transition piece (adaptor) *9) |
| 006 | Gas detector *11) |
| 007 | pH-neutralisation dosing unit with *15) 007a - NaOH dosing pump 007b - pH sensor |
| 008 | NaOH storage tank *14) *15) |

| 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 *10) |
| 16 | OUTLET - SAC condensate water *4) *10) *16) A |
| 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 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. During ICER operation, the SAC drain water amount is significantly increased. The specific drain amount is provided by the GTD.
- *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. Both drain lines must be kept separated and directed to separate tanks. The tanks must be designed with sufficiently sized vents to prevent excessive pressure in the tanks. The drain amount depends on the ambient conditions.
- *11) Optional, to be installed if requested by the flag state and/or class to achieve IGC compliance.
- *12) Switching to the separate washing water collection tank must be carried out for SAC cleaning.
- *13) While the ICER is in operation, drain to the EGC bleed-off line. The solenoid valve is actuated by a signal from the "Engine Control System".
- *14) If the caustic soda water solution has a mass fraction of 90% min NaOH, then the tank and supply line must be trace heated and insulated to keep the caustic soda temperature in the range of 27 - 37 °C. If the caustic soda water solution has a mass fraction of max. 30% min NaOH, then no heating is required.
- *15) The caustic soda storage tank and the pH-neutralisation dosing unit must be applied for installations with ICER diesel Tier III mode. For installations with only ICER gas mode, this unit can be omitted.
- *16) The system components from the SAC condensation water outlet (engine connection 16) must be designed for low pH operation. After pH neutralisation unit 007 on this drawing or the pH-neutralisation dosing unit in the EGC bleed-off line, the system components can be of standard material.



MIDS - Leakage Collection & Washing System (DG9724)

WinGD X62DF-2.1

TRACK CHANGES

| DATE | SUBJECT | DESCRIPTION |
|------------|-------------------------------|---|
| 2020-12-10 | DRAWING SET | First web upload |
| 2021-12-22 | PAAD359593 | new revision |
| 2022-03-10 | PAAD359593 107.425.369.500 | new revision |
| 2022-06-29 | PTAA037102 PTAA037457 | System and main drg – new drgs as replacement of previous drawing set |
| 2022-12-01 | PTAA037102 | new revision |
| 2022-12-20 | PTAA037102 | new revision |
| 2024-08-26 | PTAA037457A PTAA037102D | new revision |

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