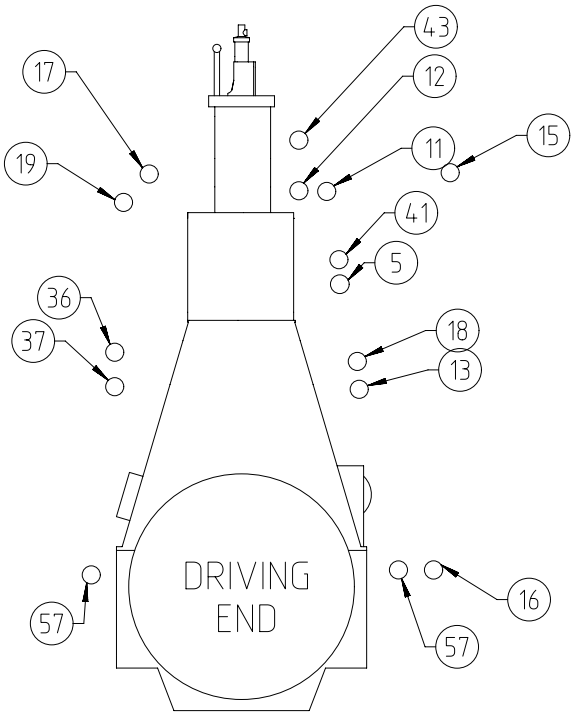


SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
001	1	PTAA037008	LEAKAGE COLLECTION/WASHING SYS.				0.001
Prod.	5,6,7,8 X52DF-2.1						
Change History							
	-	sde101	mhu019	29.06.2022	CNAA002055	Main Design/Drawing Introduced	- -
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code E C
<div>WIN GD</div> <div>Winterthur Gas & Diesel</div>			LEAKAGE COLLECTION/WASHING SYS. iCER off-engine				
Bill Of Material			Dimension iCER off-engine				
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			Main Design Yes		Design Group 9724	Q-Code XXXXX	Standard WDS
			Qty per Engine	A4	Item ID PTAA037451		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
Prod.	X52DF-2.1						
Change History							
	B	dki021	mhu019	19.12.2022	CNAA002848	Drawing Updated	4 3
	A	rth101	mhu019	22.11.2022	CNAA002751	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
<div>WIN GD</div> <div>Winterthur Gas & Diesel</div>			LEAKAGE COLLECTION/WASHING SYS. iCER off-engine				
Bill Of Material			Dimension iCER off-engine				
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			Main Design		Design Group 9724	Q-Code XXXXX	Standard WDS
			Qty per		A4	Item ID PTAA037008	BOM Page/s 01/01

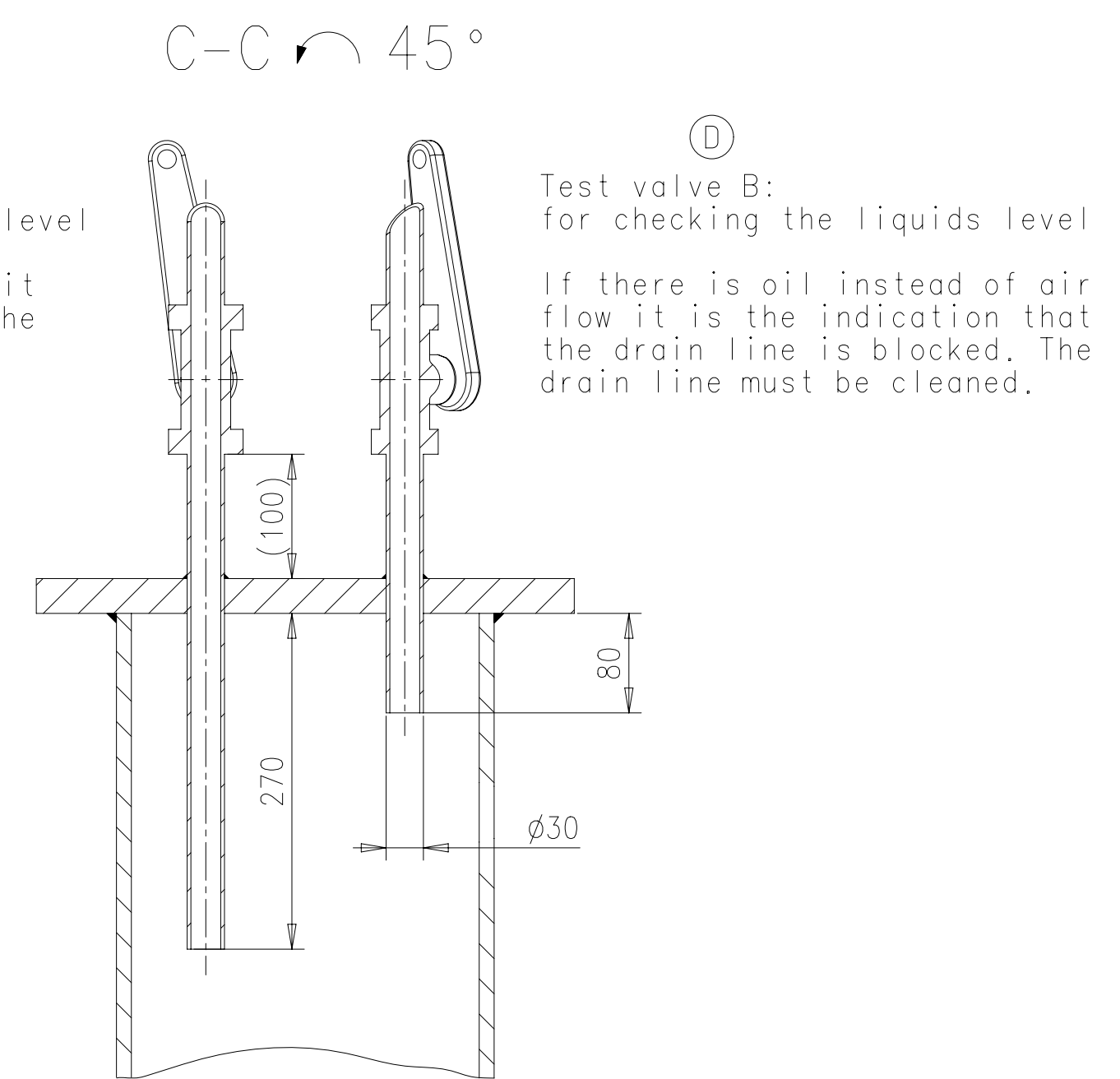
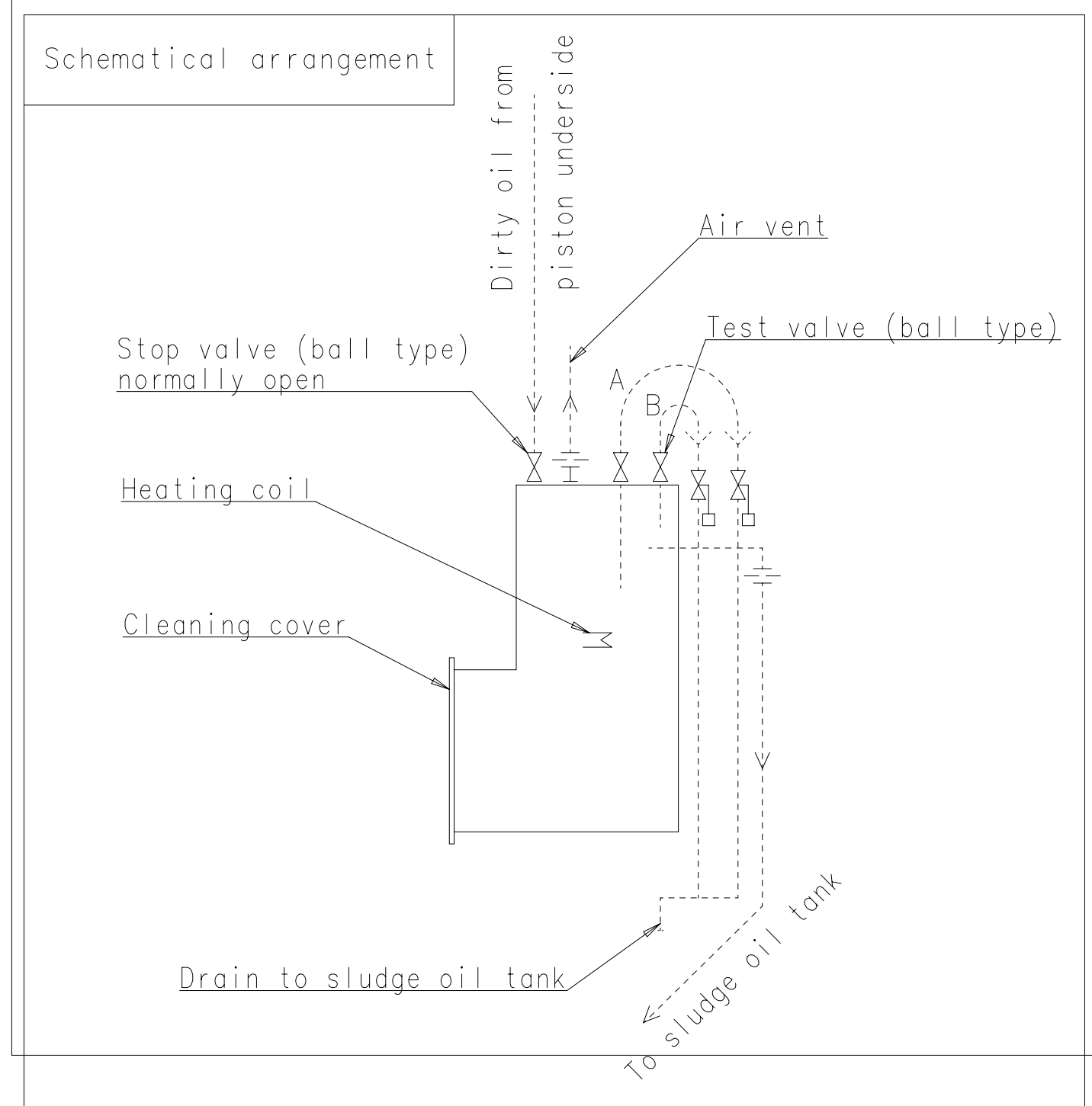
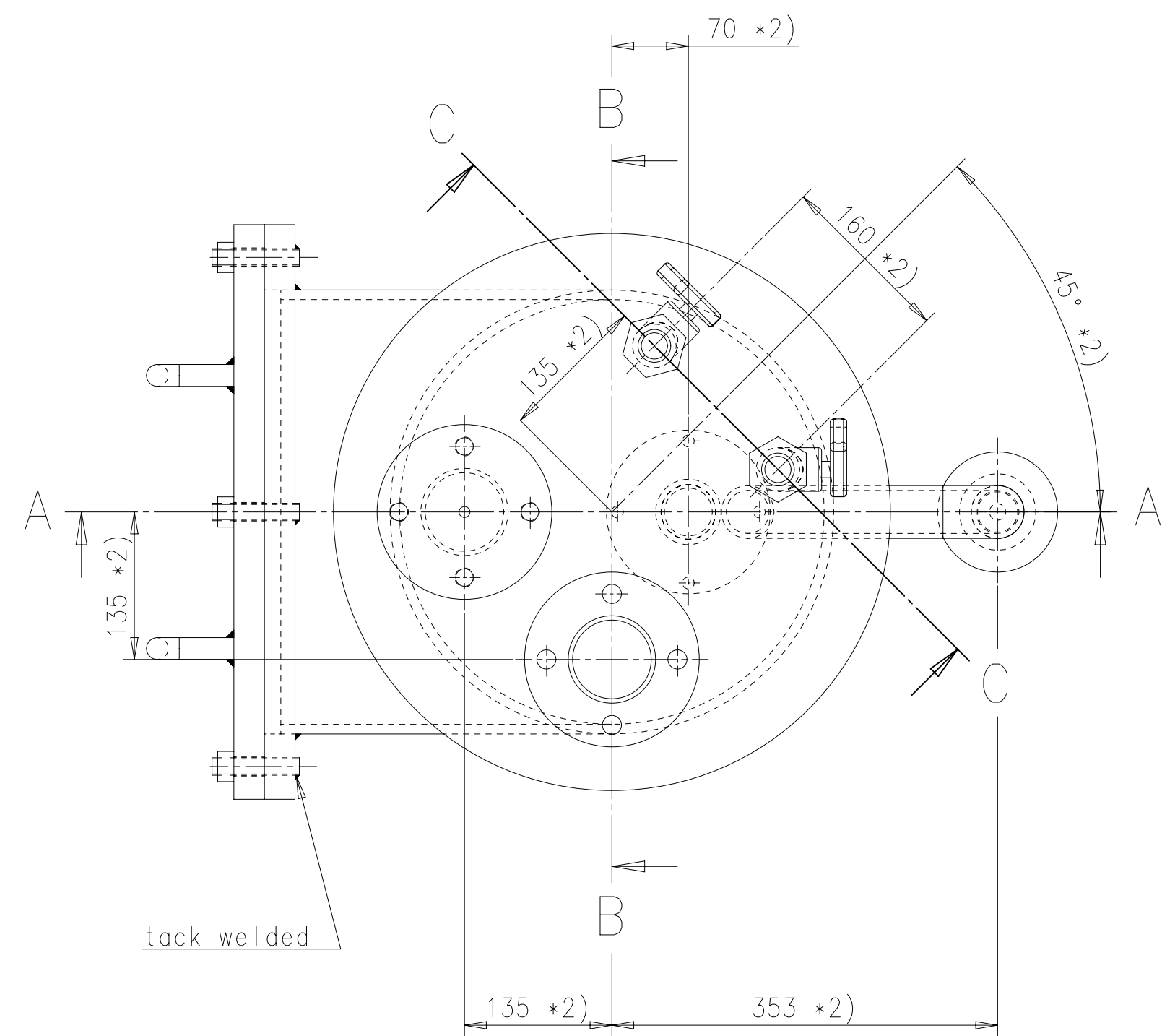
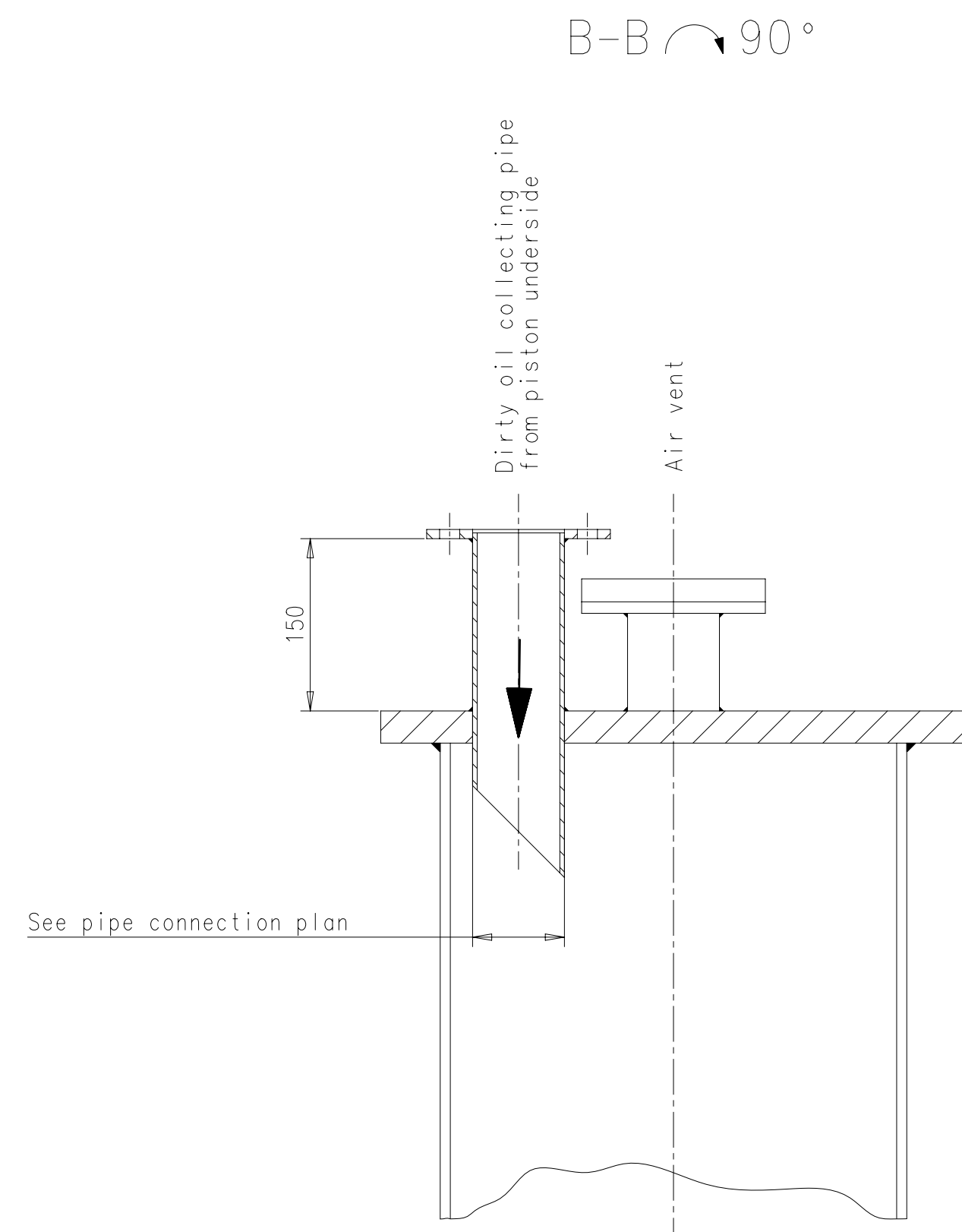
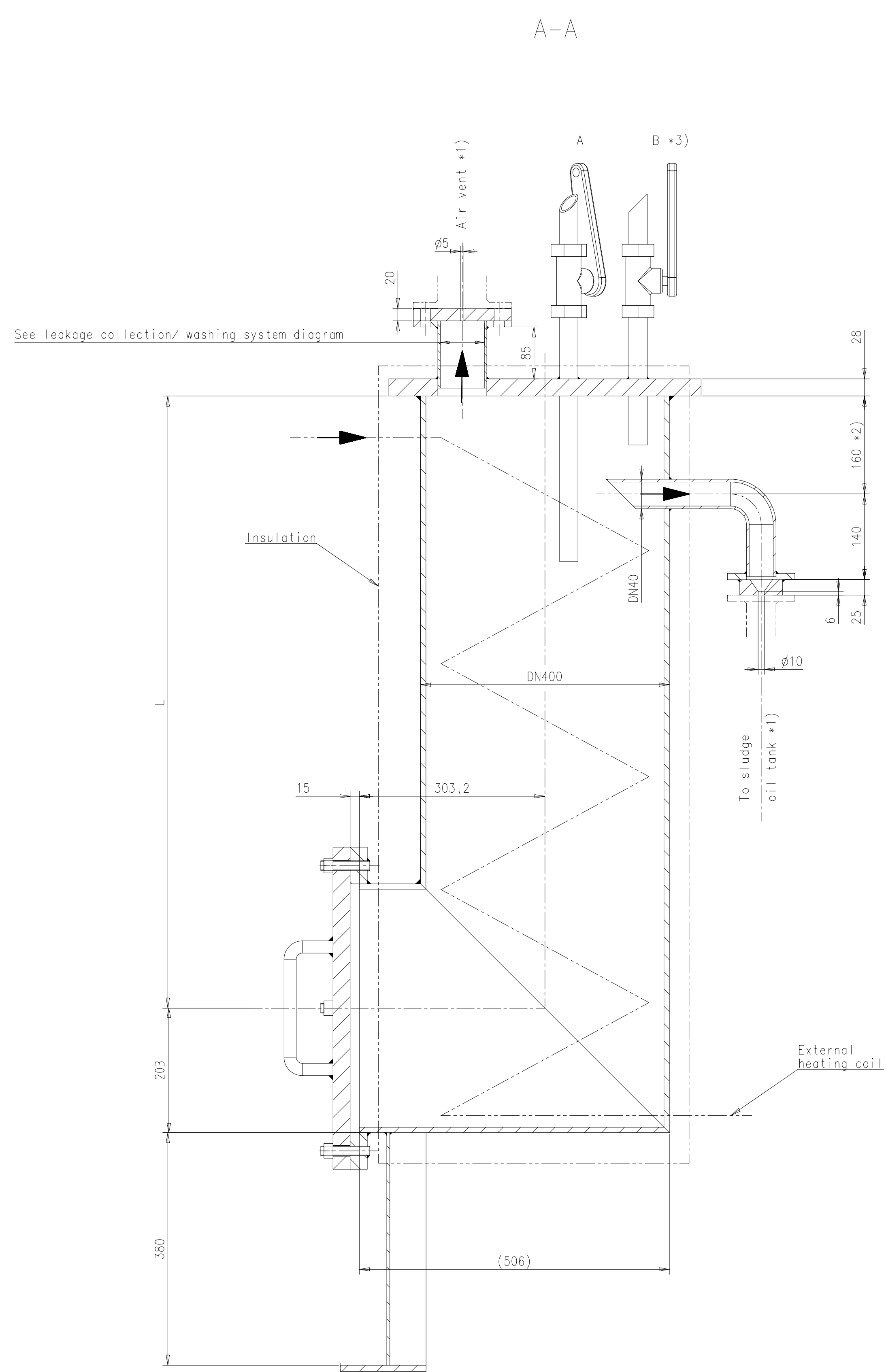
SPECIFICATION which must be met:


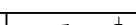
A	19	OUTLET - SAC condensate water, iCER - To EGC wastewater holding tank during iCER operation - The system components downstream of this connection until the pH-neutralisation dosing unit must be designed for low pH operation.	5	OUTLET - Cylinder cooling water drain. - Gravity flow to cooling water drain tank or appropriate tank.	A
	36	OUTLET - Dirty oil piston underside - Flow with SAC pressure to sludge oil trap or appropriate arrangement. - Min. inclination of drain pipe: 15°	11	INLET - SAC wash water - Optional connection. Only necessary if an external SAC washing system is installed. - Wash water supply: From external washing system - Wash water supply pressure: min. 3.0 bar - Wash water circulation rate: min. 4.5 m³/h	
B	37	OUTLET - Leakage oil gland box - Gravity flow to sludge tank or appropriate tank.	B		B
	41	OUTLET - Venting crankcase - Venting to funnel - Must not be connected to other venting pipes.	12	INLET - Air for cleaning plants TC - Working air, supply pressure: 7-9 bar	
	43	OUTLET - Venting turbocharger - Venting to funnel - Minimum inclination according to TC suppliers specification - Must not be connected to other venting pipes.	13	OUTLET - Oily water from scavenge air receiver - Gravity flow to oily water tank or appropriate tank.	
C	57	OUTLET - Various leakages - Gravity flow to sludge 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	C
			16	OUTLET - SAC condensate water - Gravity flow to bilge water tank or wash 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.	
D			17	OUTLET - SAC wash water - Optional connection. Only necessary if an external SAC washing system is installed. - To wash water collection tank during SAC cleaning.	D
			B		
			18	OUTLET - SAC venting - Free flow outside of engine room	



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

Prod.	X52DF-2.1													
Change History														
	B	dkl021	mhu019	19.12.2022	CNAA002848	Drawing Updated				4	3			
	A	rth101	mhu019	22.11.2022	CNAA002751	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		
<div>WIN GD Winterthur Gas & Diesel</div>					LEAKAGE COLLECTION/WASHING SYS. iCER off-engine									
separate BOM available					Dimension					iCER off-engine				
Scale	-		NX	Units [mm] [kg]	Basic Material					Net Weight		0.001		
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					Qty per		A3	Item ID	PTAA037008			Drawing Page/s		1/2



Prod.	CX40DF RT-flex8T-D	RT-flex50-D RT-flex58T-D V1 RT-flex58T-D V2	RT-flex58T-E RT-flex68-D	RT-flex68-D_L RT-flex62C	RT-flex82ISCR-HMM-PILOT RTA68-D	X35 X35-B											
Change History	D	sde1019	19.01.2022	CNA001373	drawing updated	4	3										
	C	sde1019	10.09.2018	EAA0089439	Legacy information. See corresponding ChangeNotice	4	-										
	B	dko121	mhu019	16.07.2017	EAA0087849	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							
<div>WIN GD Winterthur Gas & Diesel</div>				SLUDGE OIL TRAP													
Dimension				Units [mm] [kg]		Basic Material		Net Weight		0.001							
Scale 1:5				 NX		Main Design		Design Group		9724		Q-Code XXXXX		Standard		WDS	
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SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mL

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Main	Design
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Design	Group	
μ_1	μ_2	μ_3

Qty per	A1	Item ID
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Q726	Q-Code	XXXXXX
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[illegible]

107.425.369.500

Standard	WDS
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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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Drawing
Page/s 1/1

SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Available executions

Execution No.	Material ID	Cylinder No.
001	PAAD359117	5-8

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.	X52DF-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	PTAA025616			Drawing Page/s	1/1	

SEQ NO	QTY	Item ID	Item Name	Dimension	Standard-ID	Basic Material	Net Weight
1	1	PAAD358931	LEAKAGE COLLECTION/WASHING SYS.				0.001

<div> <div>NOT VALID FOR NEW PROJECTS!</div> <div>Provided only as reference for projects contracted before April 2022</div> </div>							
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Prod.	5,6,7,8 X52DF-2.1							
Change History								
	-	dkio21	mhu019	04.12.2020		-	-	-
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code	E C

<div> <div>WIN GD</div> <div>Winterthur Gas & Diesel</div> </div>	LEAKAGE COLLECTION/WASHING SYS.
---	---------------------------------

Bill Of Material		Dimension					
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		Main Design	Yes	Design Group	9724	Q-Code	XXXXX
		Qty per	Engine	A4	Item ID	PAAD359117	BOM Page/s
							0.001
							WDS
							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

NOT VALID FOR NEW PROJECTS! Provided only as reference for projects Contracted before April 2022							
--	--	--	--	--	--	--	--

Prod.	X52DF-2.1								
Change History	B	sde101	nmh019	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	E C

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

Bill Of Material		Dimension					
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		[m] [kg]				0.001	
		Main Design		Design Group		Standard	
				9724		Q-Code XXXXX	
		Qty per		A4		Item ID PAAD358931	
						BOM Page/s 01/01	

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

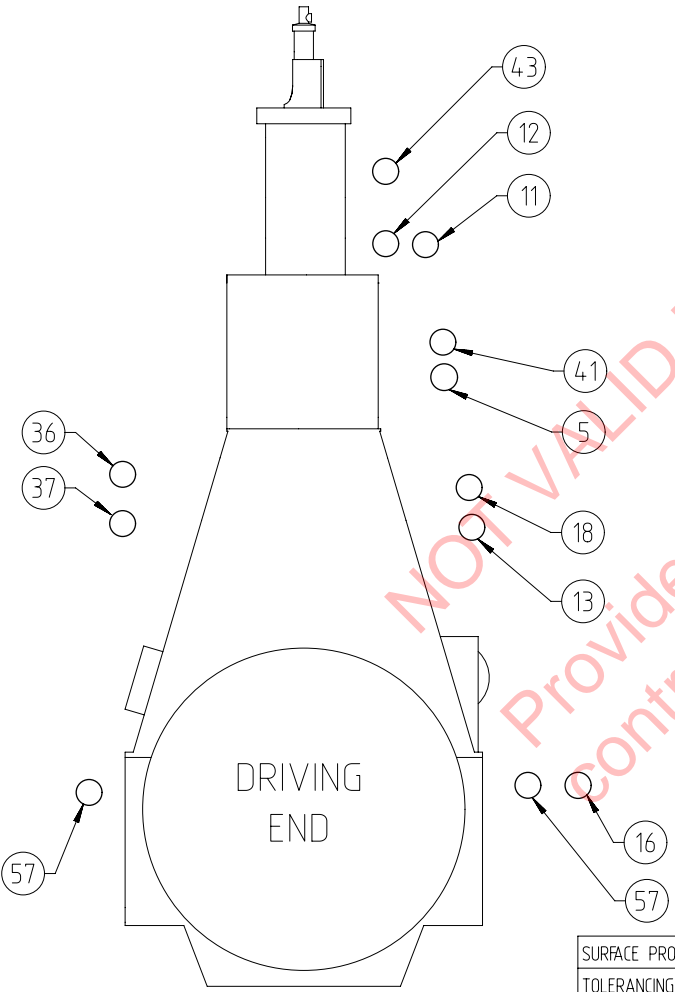
OUTLET - SAC condensate water
- Gravity flow to bilge water tank or washing water collection tank or to the EGC bleed-off line depending on the operation mode.
- The system components downstream of this connection until the pH-neutralisation dosing unit must be designed for low pH operation.
- 18

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

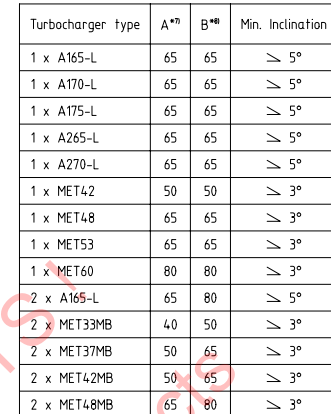
OUTLET - Venting crankcase
- Venting to funnel
- Must not be connected to other venting pipes.



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

Prod.	X52DF-2.1													
Change History														
	B	sde101	nmh019	08.03.2022	CNAA001054	Drawing Updated				4	3			
	A	nmh019	dst009	20.12.2021	CNAA001054	Drawing Updated				4	3			
	-	dkl021	nmh019	04.12.2020		-				-	-			
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis				Approved	Activity Code	E	C	
<div><div>WIN GD</div><div>Winterthur Gas & Diesel</div></div>					LEAKAGE COLLECTION/WASHING SYS.									
separate BOM available					Dimension									
Scale		-		NX	Units [mm] [kg]		Basic Material			Net Weight		0.001		
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					Qty per		A3		Item ID		PAAD358931		Drawing Page/s 1/2	

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".



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 *1)
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)
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 incineration dates 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 an engine side
- #4) The amount of condensate water drained off after the SAC depends on the relative air humidity and the scavange 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 IGC 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 30%, 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 IGC bleed-off line, the system components can be of standard material.

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

MIDS - WinGD X52DF-2.1 – Leakage Collection & Washing System (DG9724)

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2020-12-10	DRAWING SET	First web upload
2021-12-22	PAAD358931	Sytem drg – new revision
2022-03-10	PAAD358931 107.425.369.500	Sytem drgs – new revision
2022-06-30	PTAA037451 PTAA037008	System and main drgs – new drgs as a replacement for the previous drawing set added
2022-12-02	PTAA037008	System drg – new revision
2022-12-20	PTAA037008	System drg – new revision

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