NetWeight							
0,001							
1	001	107.380.197.500	LEAKAGE COLLECTION/WASHING SYS.	107.380.197			0,001
Quantity PER ENGINE	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing		Basic Material / Material Standard	Weight GR./NET

107.388.834.200 MaterialID	Free space for lic.						Q-Code XXXXX	Main Drw. H
Modif.	A	7-77.597	30.06.2010	B	EAAD090104	12.09.2019	Standard ISO; JIS	
		Number	Drawn date		Number	Drawn date		

Approved

WIN GD Winterthur Gas & Diesel

Product W6-9X82-B

LEAKAGE COLLECTION/WASHING SYS.

LEAKAGE COLLECTION/WASHING SYS.

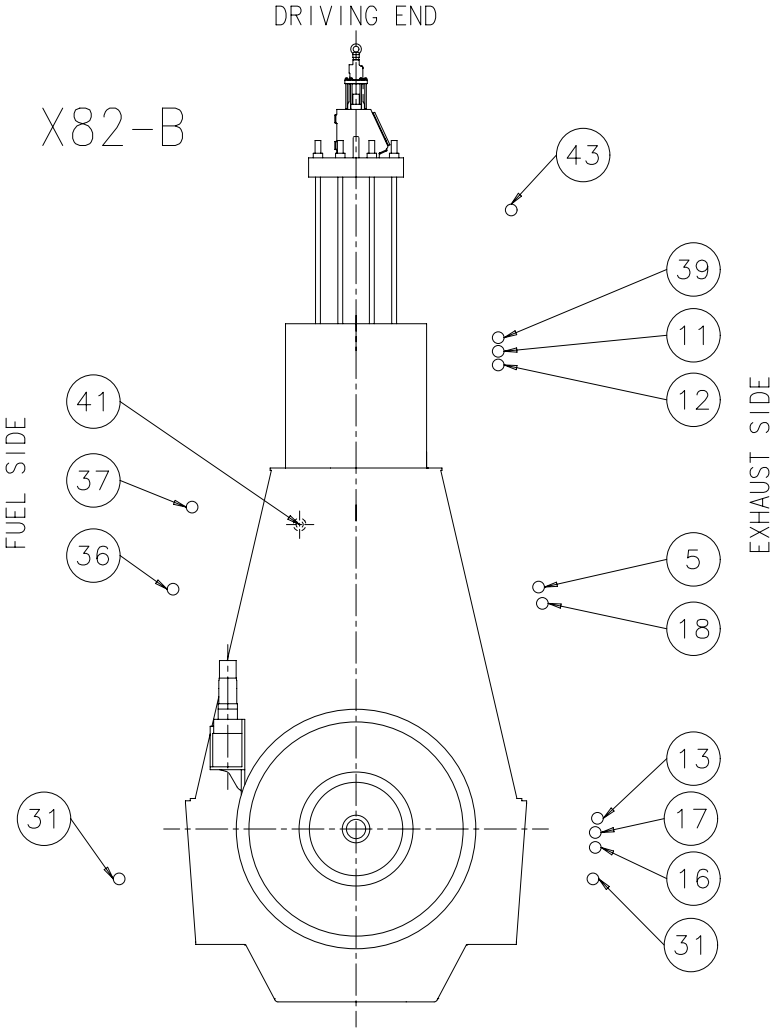
Units mm kg	NX	Basic Material	Net Weight

SURFACE PROTECTION SEE GROUP 0344	Made 08.08.2007 M.PRSTEC	Scale -	Size A3	Page 1/1	Material ID
TOLERANCING PRINCIPLE ISO8015	Chkd	Design Group 9724	Drawing ID 107.388.834		Rev. B
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd 02.04.2008 MPR002 Prstec				

ASD - ASSEMBLY DRAWING - Internal

SPECIFICATION which must be met

37	OUTLET - Leakage oil gland box - Gravity flow to sludge tank or appropriate tank.
39	OUTLET - Leakage drain cylinder block - Gravity flow to oily water drain 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 be not connected to other venting pipes.



5	OUTLET - Cylinder cooling water drain. - Gravity flow to cooling water drain tank or appropriate tank.
11	INLET - Washing water SAC - From fresh water hydrophore system, supply pressure: 2.5 bar
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 appropriate tank.
17	OUTLET - Washing water from scavenge air coller. - Gravity flow to bilge water or chemical cleaning tank.
18	OUTLET - SAC venting - Free flow outside of engine room
31	OUTLET - Various leakages - Gravity flow to sludge tank or appropriate tank.
36 H	OUTLET - Dirty oil piston underside - Flow with SAC pressure to sludge oil trap or appropriate arrangement. - Min. inclination of drain pipe: 15°

QTY	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR./NET
1	001	107.425.369.500	SLUDGE OIL TRAP	107.425.369		0,001

Free space for lic.

Q-Code: XXXXX

Standard: ISO; JIS

Main Drw.

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
E	EAAD085091	21.05.2014	F EAAD090104	13.09.2019	G EAAD092791	27.10.2020	H EAAD095177	02.11.2020

Approved

WIN GD Winterthur Gas & Diesel

Product: 6-9X82-B

LEAKAGE COLLECTION/WASHING SYS.
SYSTEM DIAGRAM

LEAKAGE COLLECTION/WASHING SYS.

Units mm kg | NX | Basic Material | Net Weight 0,001

SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Made 02.07.2010 jba029 Baumann

Chkd

Appd 15.11.2007 MPR002

Scale -

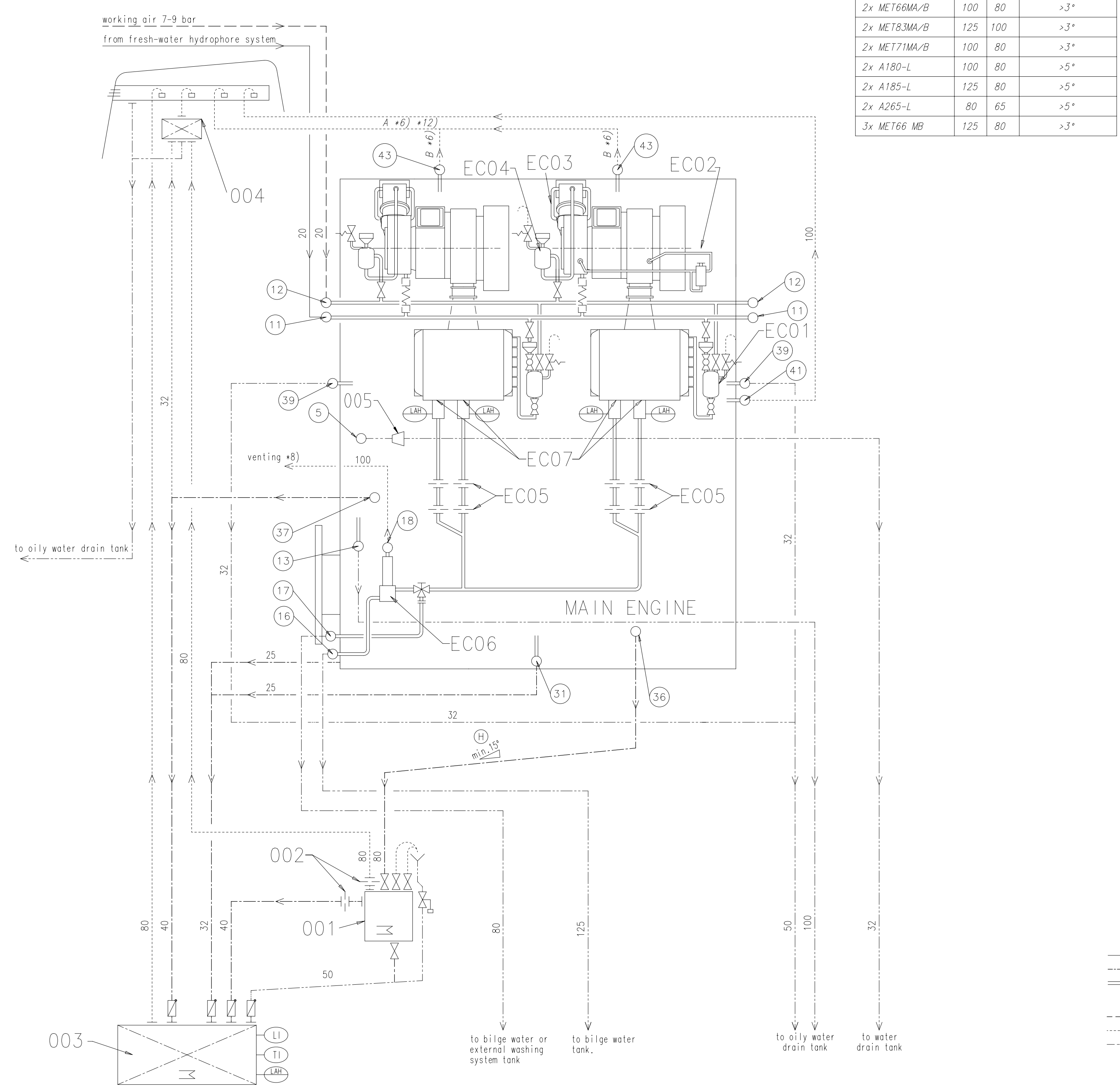
Design Group 9724

Size A3 | Page 1/2 | Material ID 107.380.197.500

Drawing ID 107.380.197 | Rev. H

DID - DIMENSIONAL DRAWING - Confidential

SYSTEM PROPOSAL



Turbocharger type	A *13)	B *12)	Min. Inclination
2x MET60 MBII	100	80	>3°
2x MET66MA/B	100	80	>3°
2x MET83MA/B	125	100	>3°
2x MET71MA/B	100	80	>3°
2x A180-L	100	80	>5°
2x A185-L	125	80	>5°
2x A265-L	80	65	>5°
3x MET66 MB	125	80	>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 approriate tank
004	Air vent manifold
005	Transition piece (adaptor) *10)

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 *14)
16	OUTLET - SAC condensate water *4) *14)
17	OUTLET - Washing water from scavenge air coller
18	OUTLET - SAC venting *8)
31	OUTLET - Various leakages
36	OUTLET - Dirty oil piston underside
37	OUTLET - Leakage oil gland box
39	OUTLET - Leakage drain cylinder block
41	OUTLET - Venting crankcase
43	OUTLET - Venting turbocharger

Pos.	ENGINE COMPONENTS *3)
EC01	Scavenge air cooler washing plant
EC02	Turbocharger compressor wheel washing plant *5)
EC03	Turbocharger turbine washing plant *5)
EC04	Dry cleaning device *5)
EC05	Throttling disc
EC06	Venting Unit
EC07	Condensate drain unit *5)

-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) One unit per turbocharger.

*6) In relation to turbocharger type, see table on the left side.

*8) Free flow venting outside of engine room.

*10) Installed as required (check with the Pipe Connection Plan).

*12) Vent pipe diameter as per turbocharger requirements.

*13) Vent pipe diameter of common collection pipe.

*14) Drain connection 13 and 16 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.

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

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
	(E) EAAD085091	21.05.2014	(F) EAAD090104	13.09.2019	(G) EAAD092791	27.10.2020	(H) EAAD095177	02.11.2020

Q-Code XXXXX · Main Drw. · Standard ISO; JIS

WIN GD Winterthur Gas & Diesel

Product 6-9X82-B

LEAKAGE COLLECTION/WASHING SYS.
SYSTEM DIAGRAM
LEAKAGE COLLECTION/WASHING SYS.

Units mm kg · NX · Basic Material · Net Weight 0,001

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

Made 02.07.2010 jba029 Baumann · Chkd · Appd 15.11.2007 MPR002

Scale - · Design Group 9724 · Size A1 · Page 2/2 · Material ID 107.380.197.500 · Drawing ID 107.380.197 · Rev. H

Approved

3D - DIMENSIONAL DRAWING - Confidential

Remarks:

*1) Orifice to be as shown

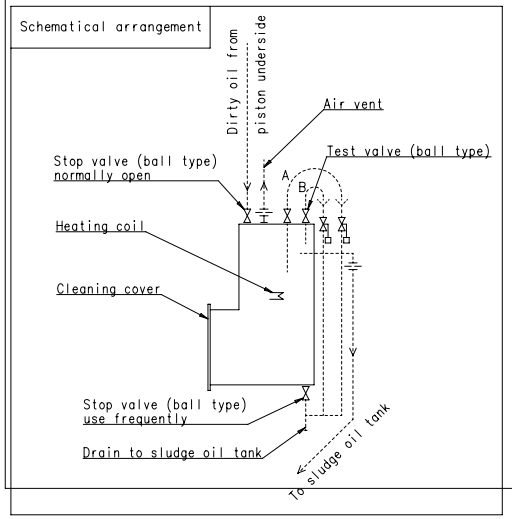
*2) Observe location of pipes with regard to each other

*3) Optional - Alternatives, such as level sensors, are possible

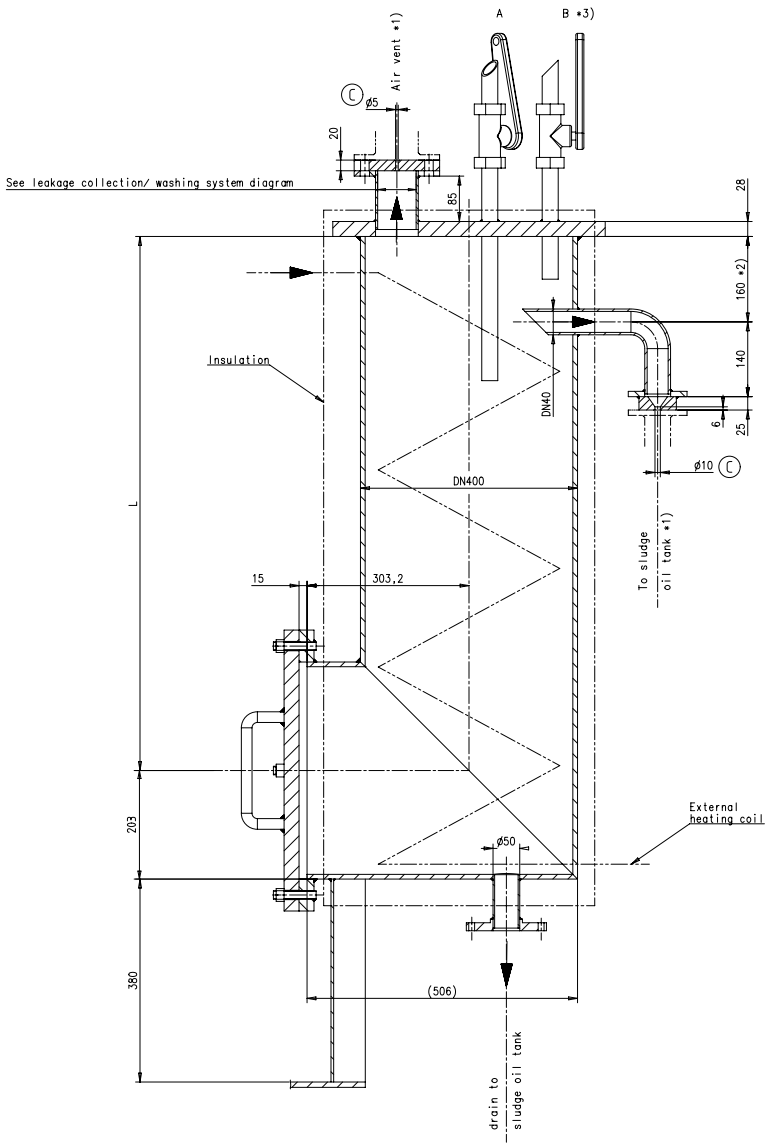
Details:

	L = 1000	L = 550
Cylinder bore size:	55-96	35-54
Capacity:	150 l	100 l
Working pressure:	4 bar	
Testing pressure:	6 bar	
Temperatur:	80°C	

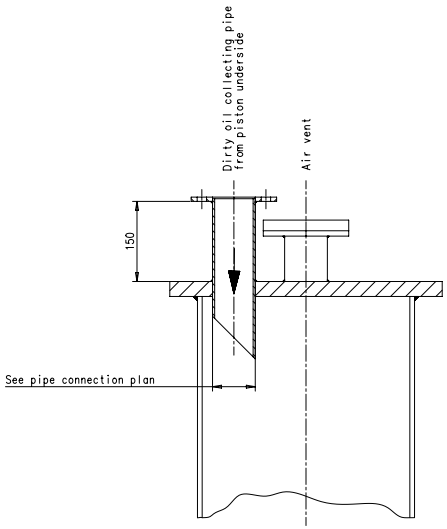
Schematical arrangement

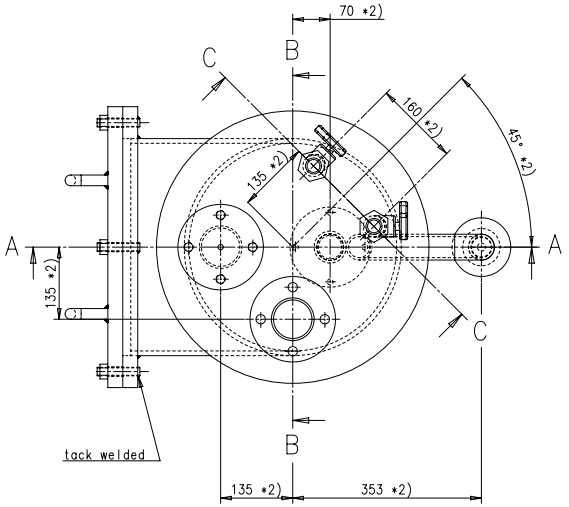


A-A



B-B 90°





C-C 45°

A:

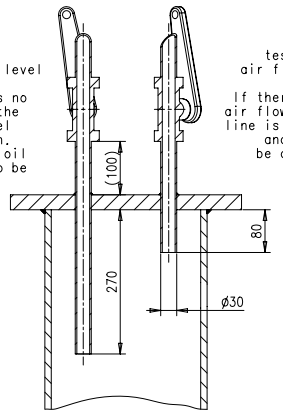
Test valve sludge oil level

If there is no oil flow, the sludge level is too high. The sludge oil trap has to be cleaned!

B:

test valve air flow *3)

If there is no air flow, drain line is blocked and has to be cleaned!



Free space for lic.										Q-Code XXXXX	Main Drw.
										Standard ISO; JIS	
Modif.	A	EAAD084051	22.01.2013	B	EAAD087849	14.07.2017	C	EAAD089439	12.07.2018		
	Number		Drawn date	Number		Drawn date	Number		Drawn date	Number	Drawn date

WINGD Winterthur Gas & Diesel

Product W-2S

SLUDGE OIL TRAP

Units mm kg	NX	Basic Material						Net Weight 0.001	
SURFACE PROTECTION SEE GROUP 0344	Made	31.08.2009	J.BAUMANN	Scale	1:5	Size	A1	Page	1/1
TOLERANCING PRINCIPLE ISO8015	Chkd			Design Group	9724	Drawing ID	107.425.369	Rev.	C
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	13.11.2009	JBA029 Baumann					Material ID	107.425.369.500

MIDS - WinGD X82-B – Leakage Collection and Washing System

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2017-02-23	DRAWING SET	First web upload
2017-08-23	107.425.369	Sludge oil trap drg - new revision
2018-10-04	107.425.369	Sludge oil trap drg - new revision
2019-09-18	107.388.834 107.380.197	Main and system drg – new revision
2020-11-25	107.380.197	System drg – new revision

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