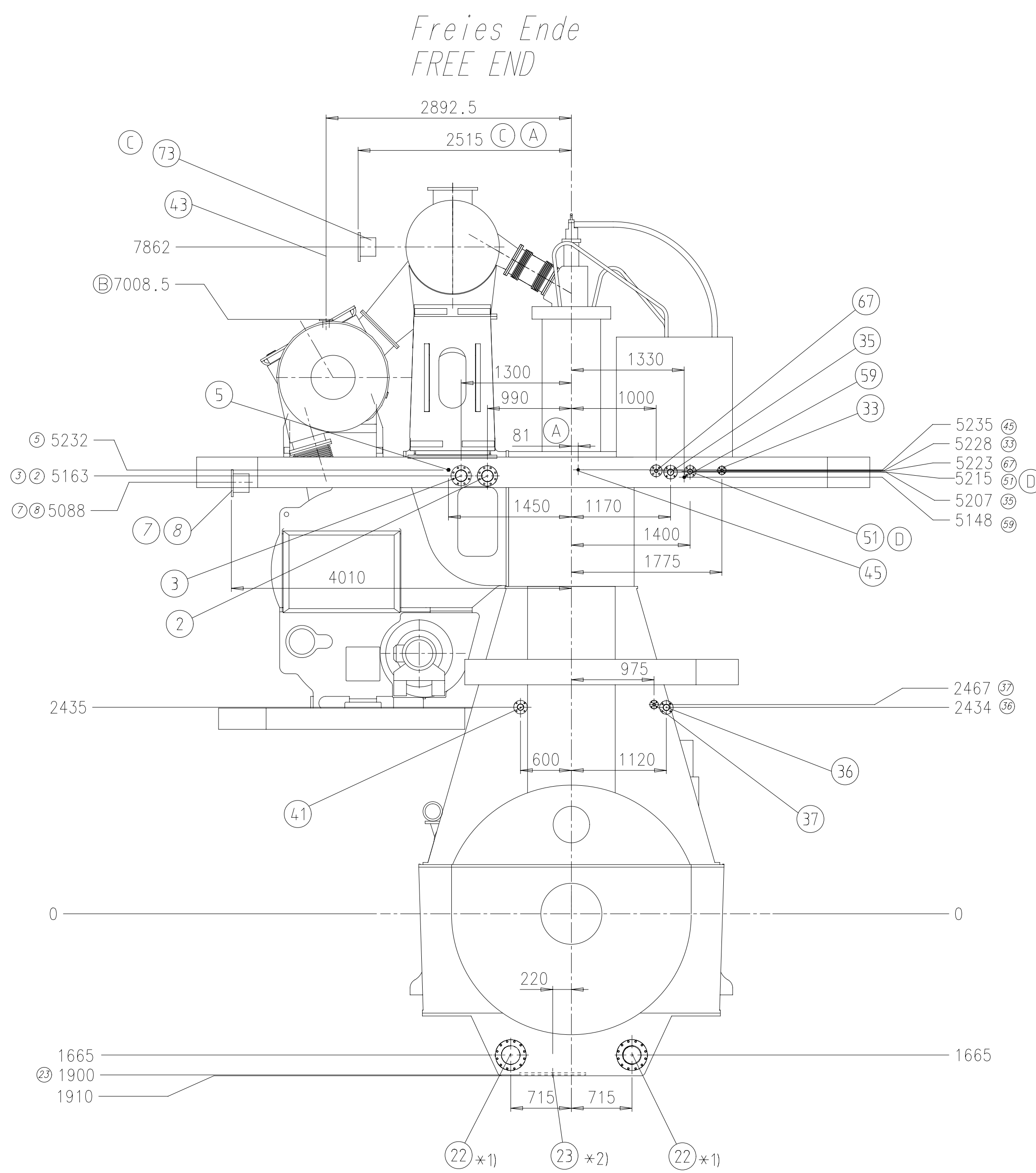
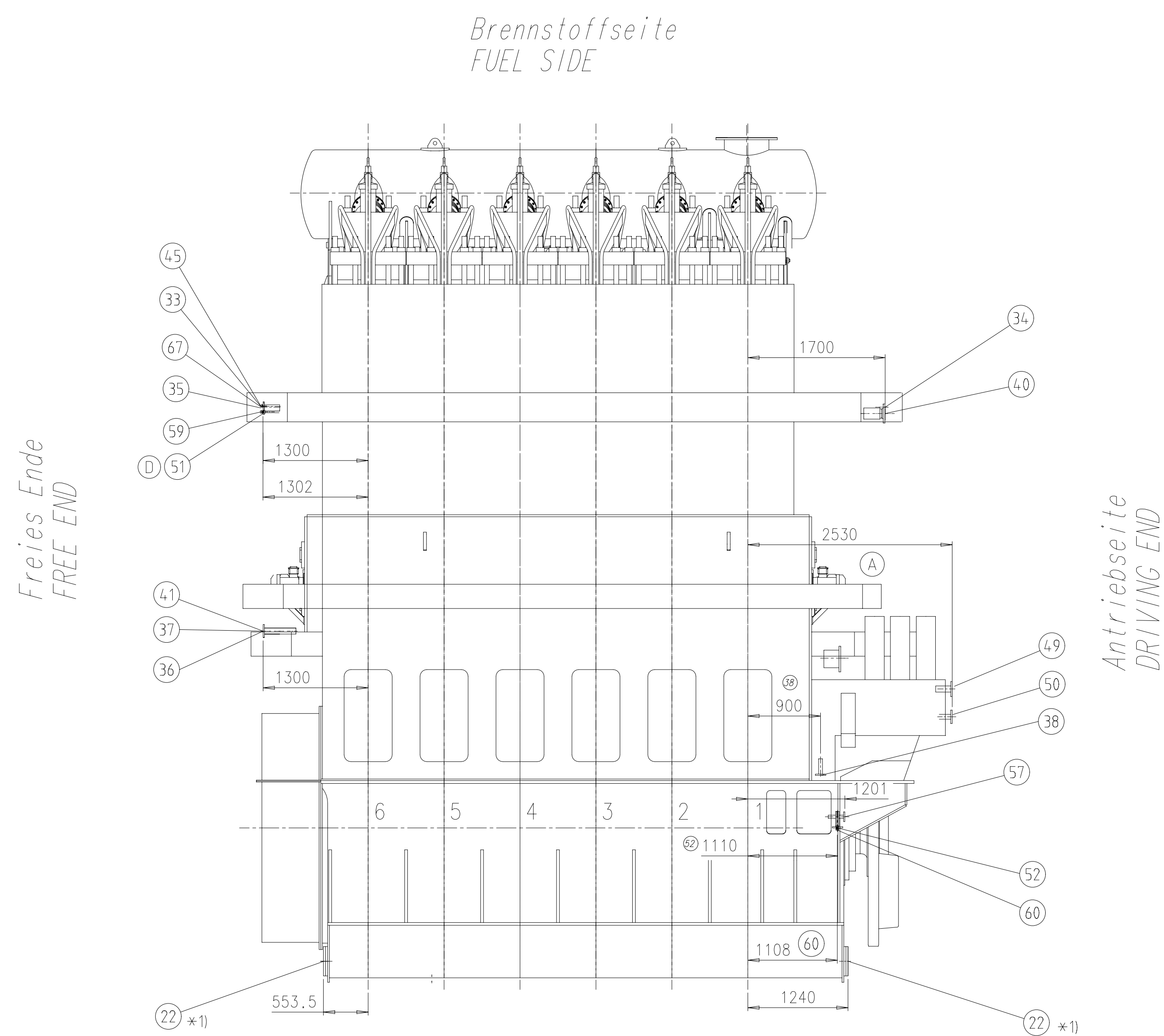
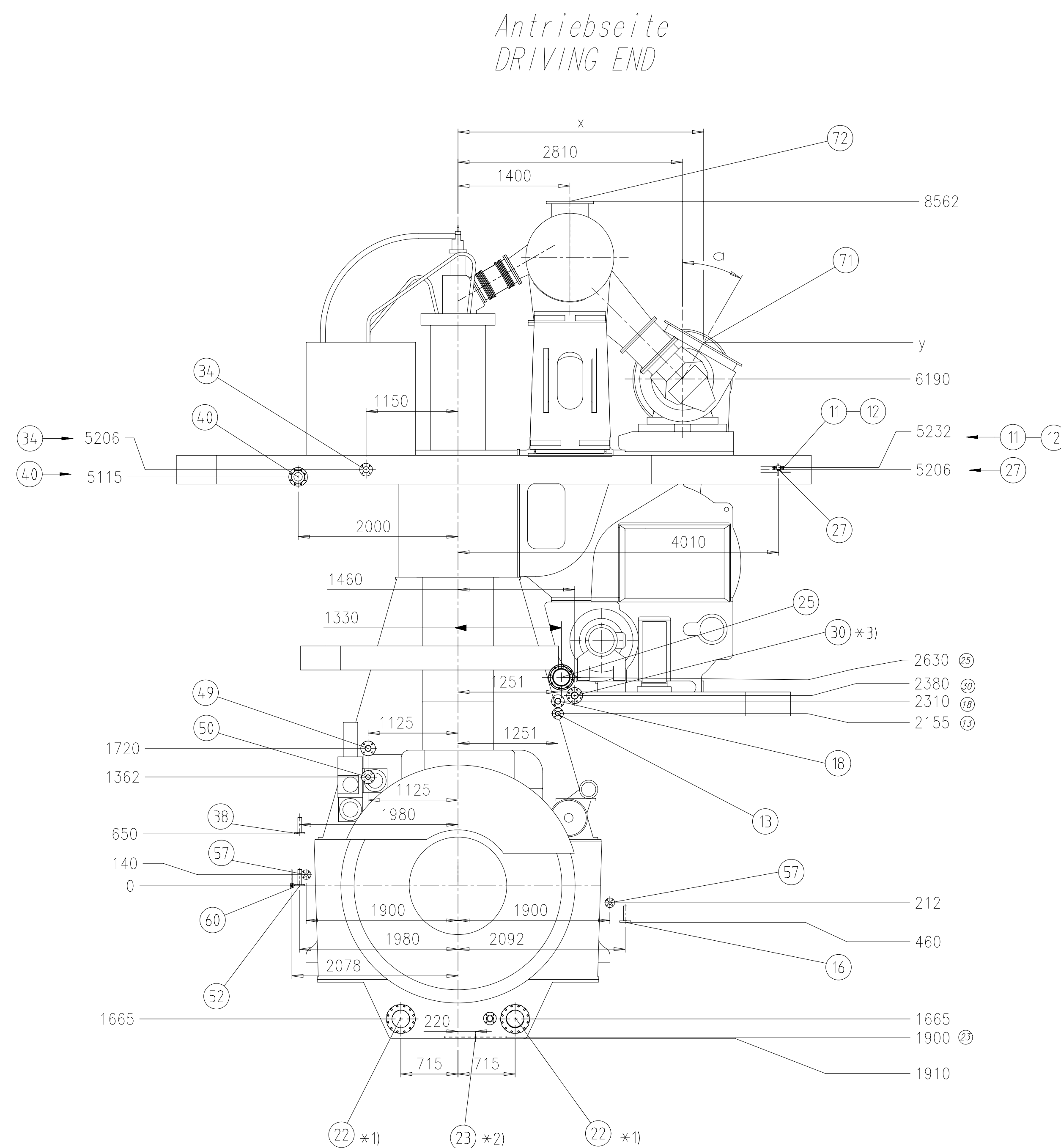
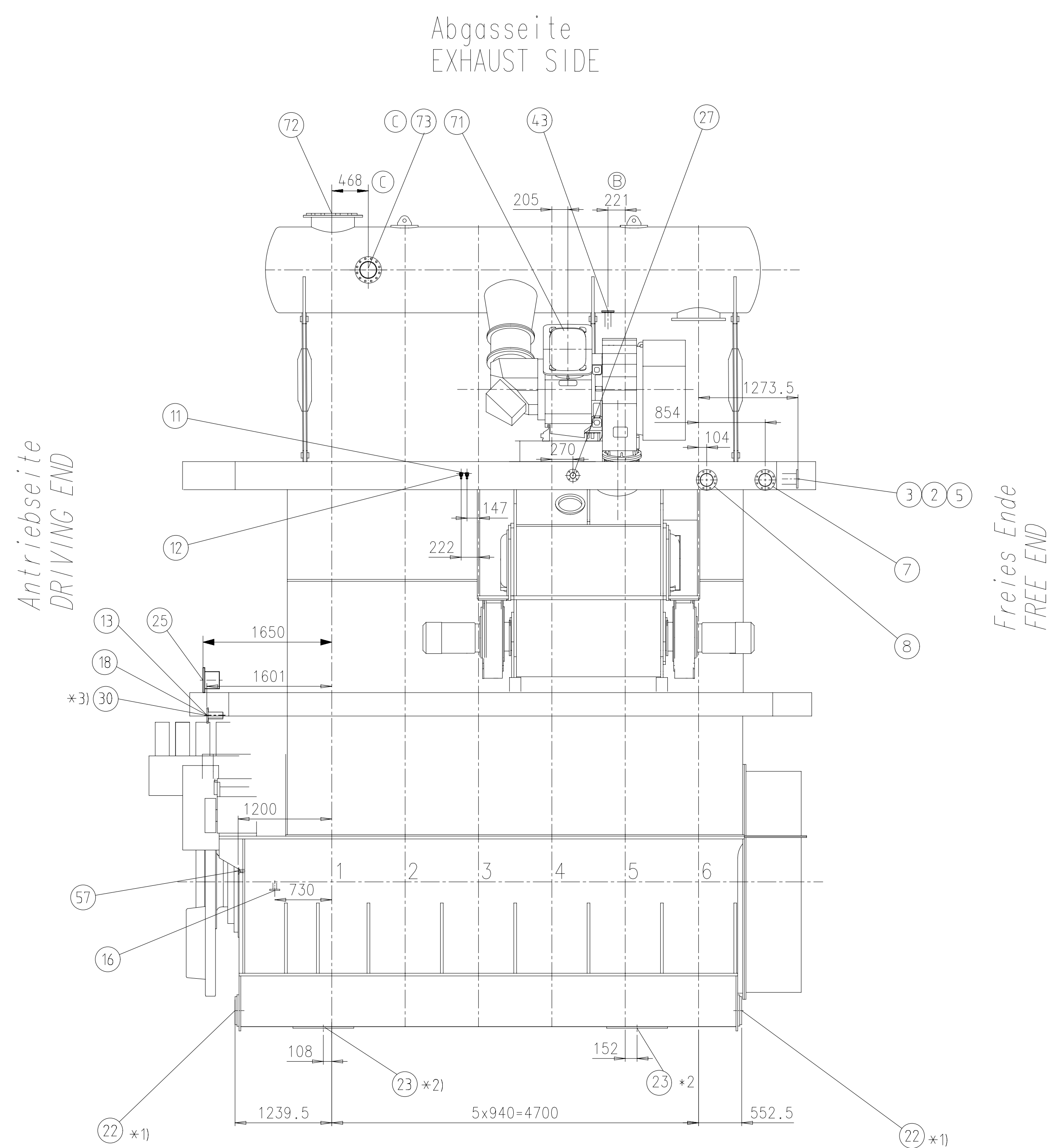


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Gasaustritt-Stellung GAS OUTLET POSITION		(A)	
		x	y
15°		2946	6698
30°		3073	6645
45°		3182	6562

- *1) Optional Ausführung (wenn verlangt)
OPTIONAL EXECUTION (IF REQUIRED)
 - *2) Standard Ausführung
STANDARD EXECUTION
Vorschlag: Endgültige Position
ist mit Werk zu bestimmen
PROPOSAL: FINAL POSITION TO BE DETERMINED
IN ACCORDANCE WITH SHIPYARD
 - *3) ONLY FOR ENGINE EQUIPPED WITH HIGH PRESSURE
CROSSHEAD BEARING LUBRICATION
- Alle Flanschschlüsse am Motor sind mit Gegenflanschen versehen (Blindflansch), ausgenommen der Anschluss für den Gasaustritt am Turbolader. Die Blindflansche sind nach dem betreffenden Rohrdurchmesser des Wertflanschschlusses aufzubohren.
THE PIPE CONNECTIONS ON THE ENGINE ARE SUPPLIED WITH MATING FLANGES (BLIND). WITH EXCEPTION OF THE TURBO-CHARGER EXHAUST GAS OUTLET, BLIND FLANGES TO BE DRILLED TO MATCH PIPE DIA. SUPPLIED BY THE SHIPYARD.

DIMENSIONS FOR REFERENCE ONLY.
TECHNICAL MODIFICATIONS RESERVED.
LATER ADAPTATIONS ARE POSSIBLE BASED ON
PROJECT REQUIREMENTS AND RELATED DETAIL DESIGN.
THIS PIPE CONNECTION PLAN MAY NOT BE USED FOR
FINAL DESIGN!

Die Gewinde-Anschlüsse werden komplett geliefert
SCREWED CONNECTIONS ARE SUPPLIED COMPLETE

1 x A165-L

1 x A265-L

Internes TL Ölsystem
INTERNAL TC OIL SYSTEM

	[Part#]	0.001											
PER ENGINE	SEQ NO	107.390.729.500				FLANGE DIMENSIONS				107.390.729		0.001	
	Material ID	Material Name				Dimension, Oz.		Standard or Drawing		Basic Material Material Standard		Weight GR/MET	
										G-Code XXXXXX Standard ISO		H	
	Tire space												
MATERIAL	MOZ.	A	EAD098R78	31.08.2018	B	EAD091VS23	12.2019	C	EAD092T07	14.08.2020	D	EAD093HT19	08.2020
	Number	Drawn date		Number	Drawn date		Number	Drawn date		Number	Drawn date		
		H											

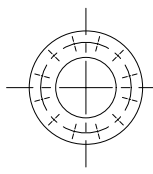
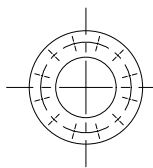
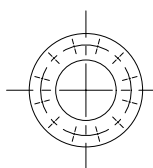
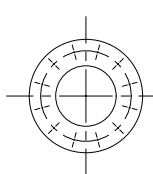
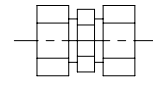
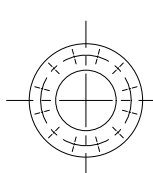
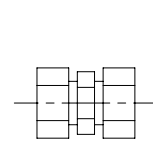
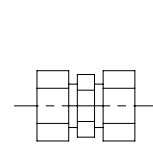
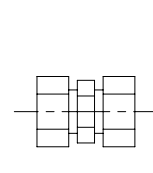
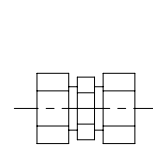
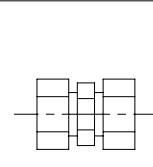
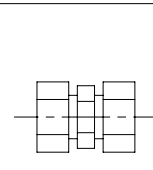
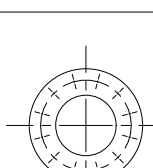
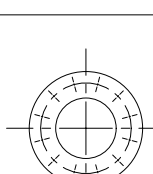
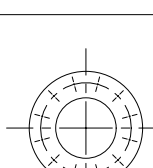
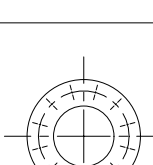
 WINGD Winterthur Gas & Diesel	Product W6X52	PIPE CONNECTION PLAN Rohranschlussplan
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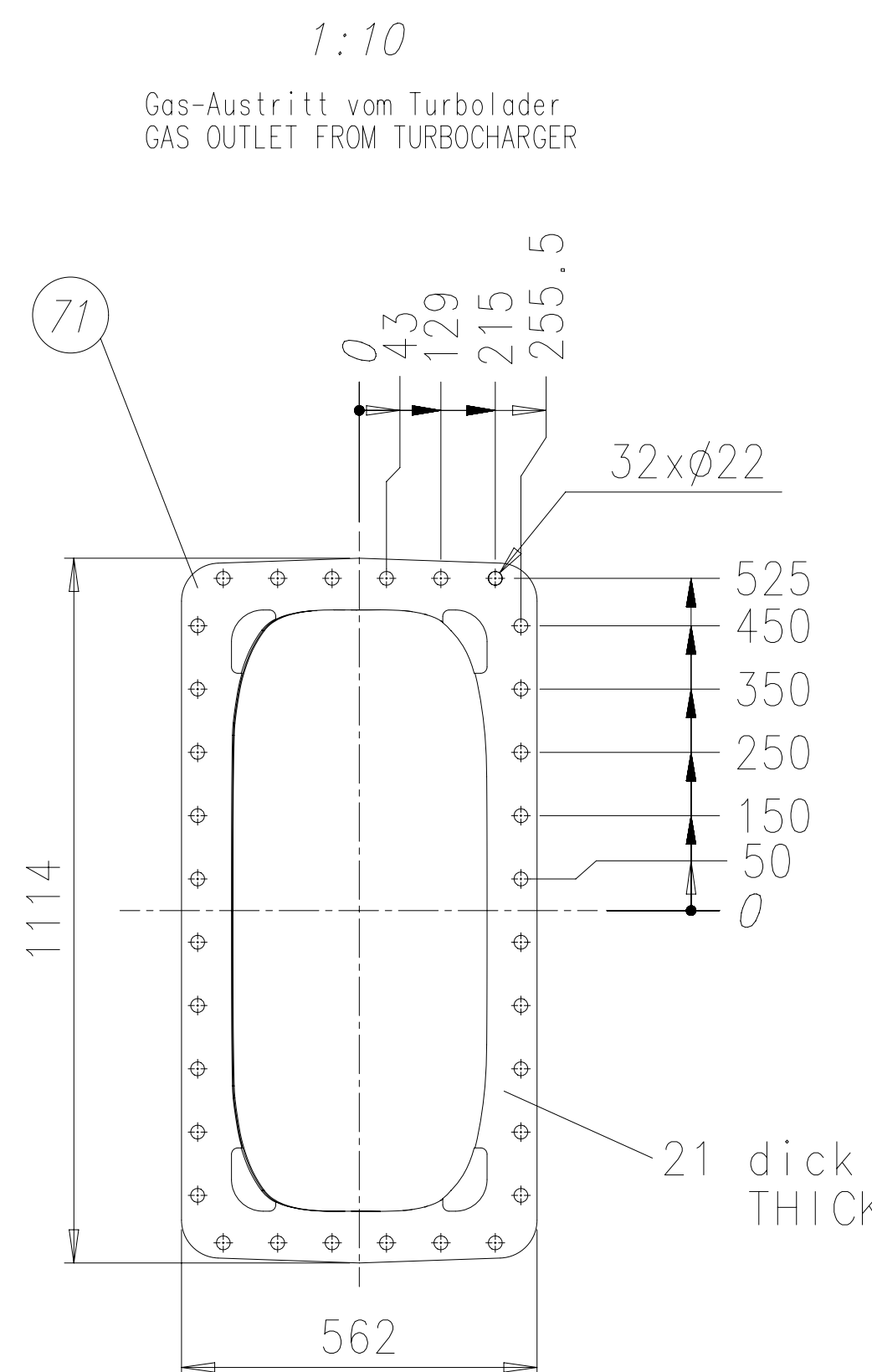
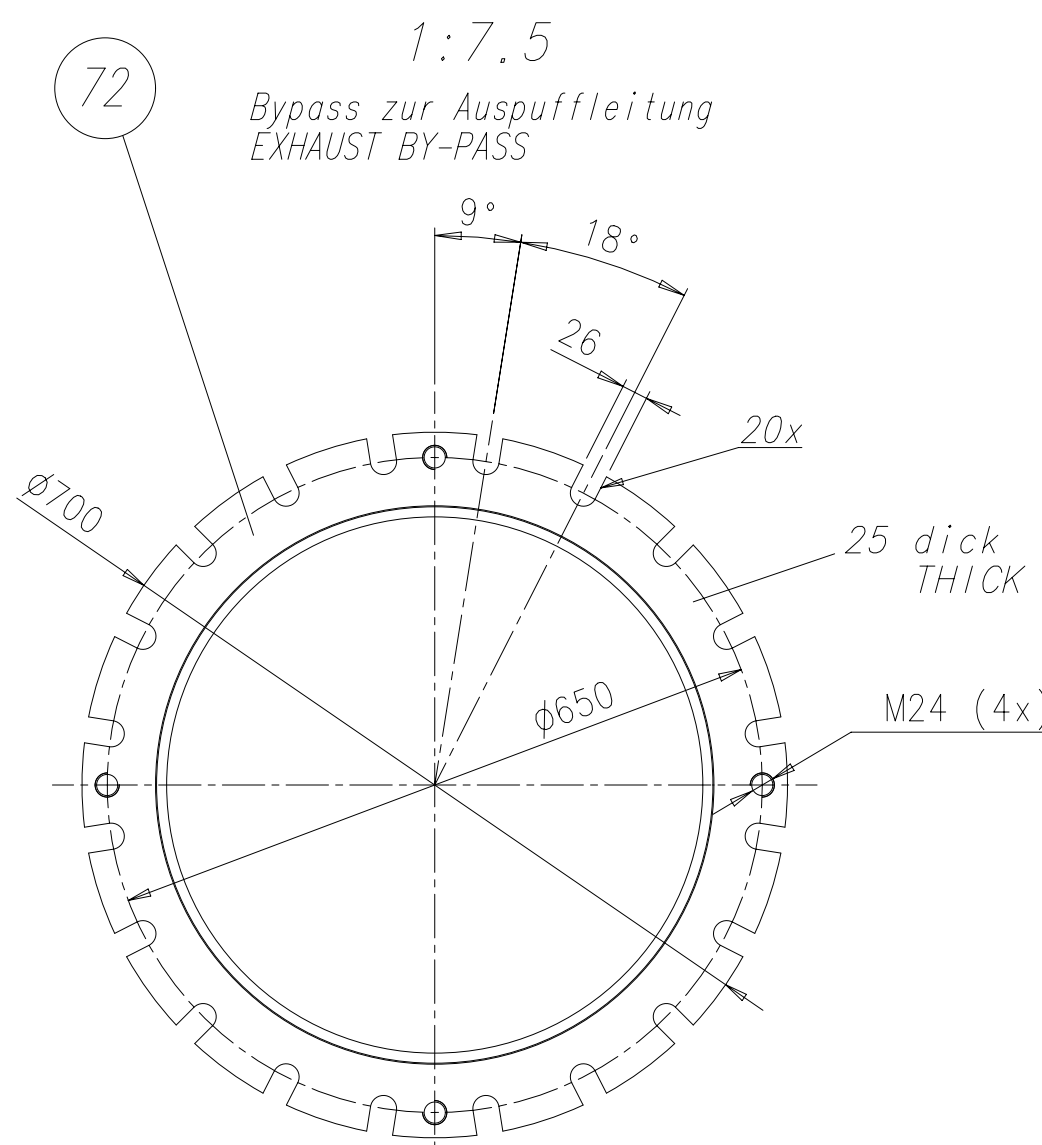
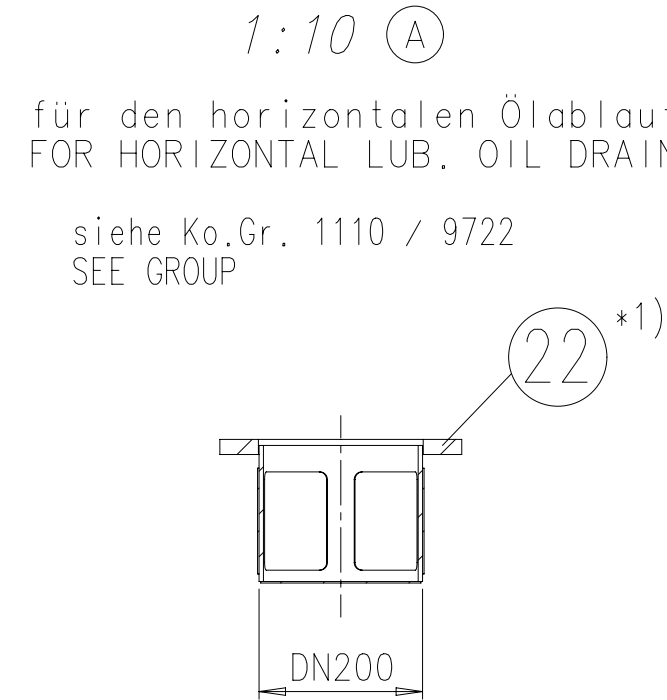
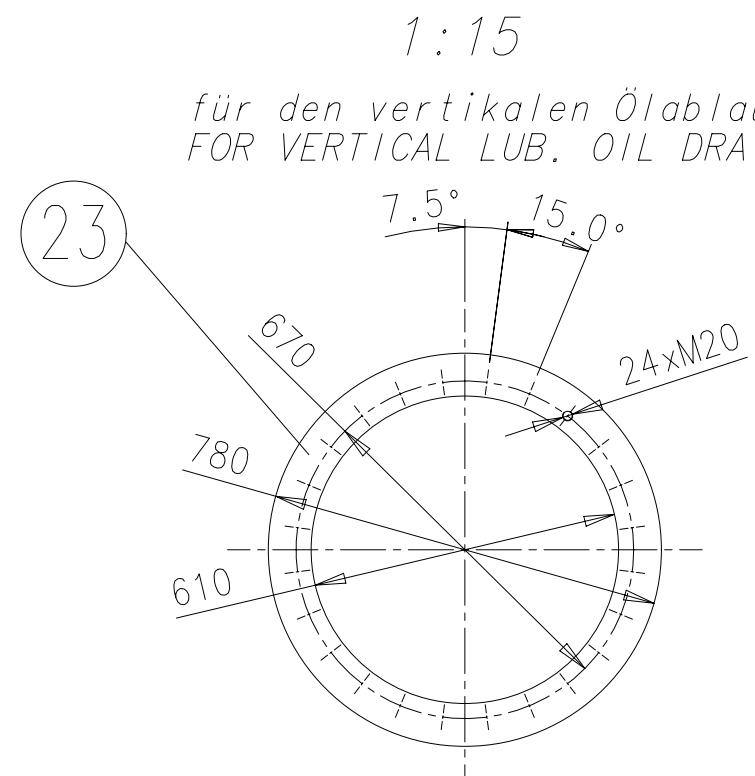
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TOLERANCING PRINCIPLE ISO8015		Chkd	28.06.2018	hda002 Dörre	Design Group	8020	Drawing ID	DAAD299500				Rev.	D
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd	28.06.2018	mda006 Dacic									

				Leitungs-Anschlüsse PIPE-CONNECTIONS				
				Ko. Gr. KO. GR.	Freies Ende FREE END	Antriebsseite DRIVING END	Abgasseite EXHAUST SIDE	Brennstoffseite FUEL SIDE
1								
2		Zylinderkuehlwasser Eintritt CYLINDER COOLING WATER INLET	DN 125 PN 6	8305	X		X	
3		Zylinderkuehlwasser Austritt CYLINDER COOLING WATER OUTLET	DN 125 PN 6	8310	X		X	
4		Zylinderkuehlwasser Entluftung CYLINDER COOLING WATER VENTING	DN PN	8310	Nicht benoetigt NOT USED			
5		Zylinderkuehlwasser Entleerung Austritt CYLINDER COOLING WATER DRAIN OUTLET	DN 20 PN 6	8313	X		X	
6		SLK Entleerung Austritt SAC DRAIN OUTLET	DN PN	8314	Nicht benoetigt NOT USED			
7		SLK-NT-Kuehlwasser Eintritt SAC-LT-COOLING WATER INLET	DN 150 PN 6	8335	X		X	
8		SLK-NT-Kuehlwasser Austritt SAC-LT-COOLING WATER OUTLET	DN 150 PN 6	8335	X		X	
9		SLK-HT-Kuehlwasser Eintritt SAC-HT-COOLING WATER INLET	DN PN	8335	Nicht benoetigt NOT USED			
10		SLK-HT-Kuehlwasser Austritt SAC-HT-COOLING WATER OUTLET	DN PN	8335	Nicht benoetigt NOT USED			
11		Wasser fuer Reinigungsanlage TL und SLK Eintritt WATER FOR CLEANING PLANT TC AND SAC INLET	DN 20 PN 16	8338		X	X	
12		Luft fuer Reinigungsanlage TL und SLK Eintritt AIR FOR CLEANING PLANT TC AND SAC INLET	DN 20 PN 16	8338		X	X	
13		Oeliges Wasser vom Receiver Austritt OILY WATER FROM RECEIVER OUTLET	DN 50 PN 6	8352		X	X	
14		Turbolader Schmutzwasser Austritt TURBOCHARGER DIRTY WATER OUTLET	DN PN	8355	Nicht benoetigt NOT USED			
15		Ablauf vom Wasserabscheider Austritt WATER DRAIN FROM WATERSEPARATOR OUTLET	DN PN	8356	Nicht benoetigt NOT USED			
16		SLK Kondenswasser Austritt SAC CONDENSATE WATER OUTLET	DN 40 PN 6	8357		X	X	
17		SLK Waschwasser Austritt SAC WASHING WATER OUTLET	DN PN	8357	Nicht benoetigt NOT USED			
18		SLK Entluftung CYLINDER LUB. OIL OUTLET	DN 65 PN 6	8357		X	X	
19								
20								
21								
22	siehe Detail SEE DETAIL	Oelablauf Grundplatte Horizontal OIL DRAIN BEDPLATE HORIZONTAL		1110	X	X	X	X
23	siehe Detail SEE DETAIL	Oelablauf Grundplatte Vertikal OIL DRAIN BEDPLATE VERTICAL		1110 9722	X	X	X	
24		Zylinder Schmieroel Austritt CYLINDER LUB. OIL OUTLET	DN PN	8472	Nicht benoetigt NOT USED			
25		Hauptschmieroel Eintritt MAIN LUBRICATING OIL INLET	DN 200 PN 6	8406		X	X	

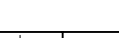
*3) ONLY FOR ENGINE EQUIPPED WITH HIGH PRESSURE CROSSHEAD BEARING LUBRICATION

26		Schmieröl Turbolader Eintritt LUBRICATING OIL TURBOCHARGER INLET	DN PN	8430	Nicht benoetigt NOT USED			
27		Schmieröl Turbolader Austritt LUBRICATING OIL TURBOCHARGER OUTLET	DN 65 PN 6	8431		X	X	
28		Spülöl Automatikfilter Austritt FLUSHING OIL AUTOMATIC FILTER OUTLET	DN PN	8445	Nicht benoetigt NOT USED			
29		Schmutzöl Ablauf Versorgungseinheit Austritt DIRTY OIL DRAIN SUPPLY UNIT OUTLET	DN PN	8452	Nicht benoetigt NOT USED			
30		Schmieröl Kreuzkopf Eintritt LUBRICATING OIL CROSSHEAD INLET	DN 100 PN 16	8455		X	X	
31		Leckagen vom Motor Austritt DIRTY OIL LEAKAGE FROM ENGINE OUTLET	DN PN	8463	Nicht benoetigt NOT USED			
32		Zylinder Schmieröl Eintritt CYLINDER LUB. OIL INLET	DN PN	8473	Nicht benoetigt NOT USED			
33		Zylinder Schmieröl Eintritt CYLINDER LUB. OIL INLET	DN 25 PN 6	8475	X			X
34		Lecköl Antriebsseite Austritt LEAKAGE OIL DRIVING END OUTLET	DN 65 PN 6	8482		X		X
35		Lecköl Freies Ende Austritt LEAKAGE OIL FREE END OUTLET	DN 65 PN 6	8483	X			X
36		Schmutzöl Kolbenunterseite Austritt DIRTY OIL PISTON UNDERSIDE OUTLET	DN 65 PN 6	8487	X			X
37		Lecköl Stopfbuechse Austritt LEAKAGE OIL GLAND BOX OUTLET	DN 25 PN 6	8488	X			X
38		Ölablaufflg. Versorgungseinheit Austritt OIL PIPE DRAIN SUPPLY UNIT OUTLET	DN 40 PN 6	8454		X		X
39		Leckageablauf Zylinderblock Austritt LEAKAGE DRAIN CYLINDER BLOCK OUTLET	DN PN	8462	Nicht benoetigt NOT USED			
40		Anlassluft Eintritt STARTING AIR PIPE INLET	DN 100 PN 40	8605		X		X
41		Entlüftung Kurbelgehäuse Austritt VENTING CRANKCASE OUTLET	DN 65 PN 6	8608	X		X	
42		Entlüftung Waste Gate Austritt VENTING WASTE GATE OUTLET	DN PN	8609	Nicht benoetigt NOT USED			
43		Entlüftung Turbolader Austritt VENTING TURBOCHARGER OUTLET	DN 65 PN 6	8610	X		X	
44								
45		Steuerluftversorgung Eintritt CONTROL AIR SUPPLY INLET	DN 15 PN 12	8630	X			X
46		Steuerluftversorgung Eintritt CONTROL AIR SUPPLY INLET	DN PN	4605	Nicht benoetigt NOT USED			
47		Steuerluftzultg. Ventile Eintritt CONTROL AIR SUPPLY VALVE INLET	DN PN	8631	Nicht benoetigt NOT USED			
48								
49		Brennstoff Eintritt FUEL INLET	DN 65 PN 16	8702		X		X
50		Brennstoffruecklauf Austritt FUEL RETURN OUTLET	DN 65 PN 16	8704		X		X

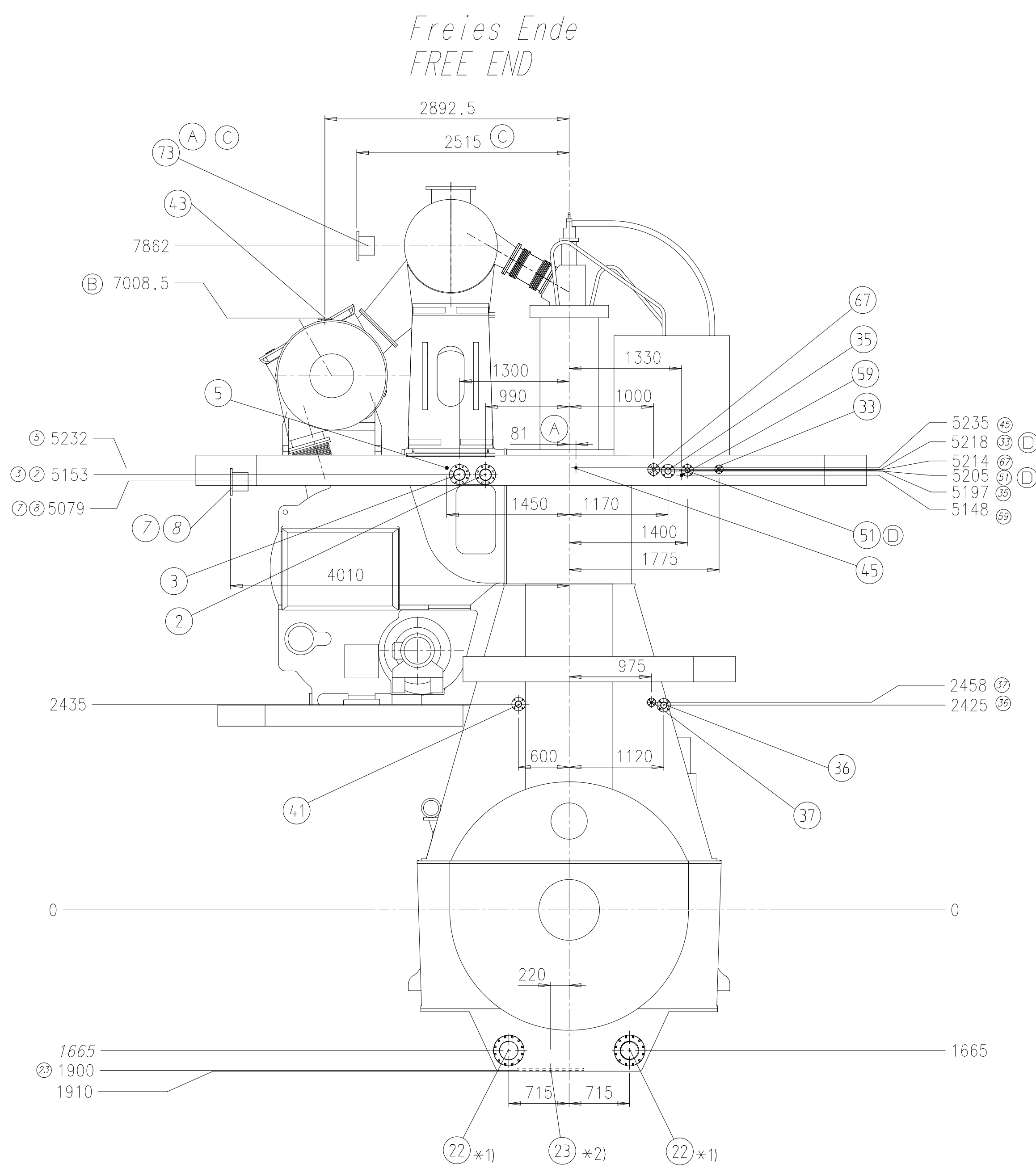
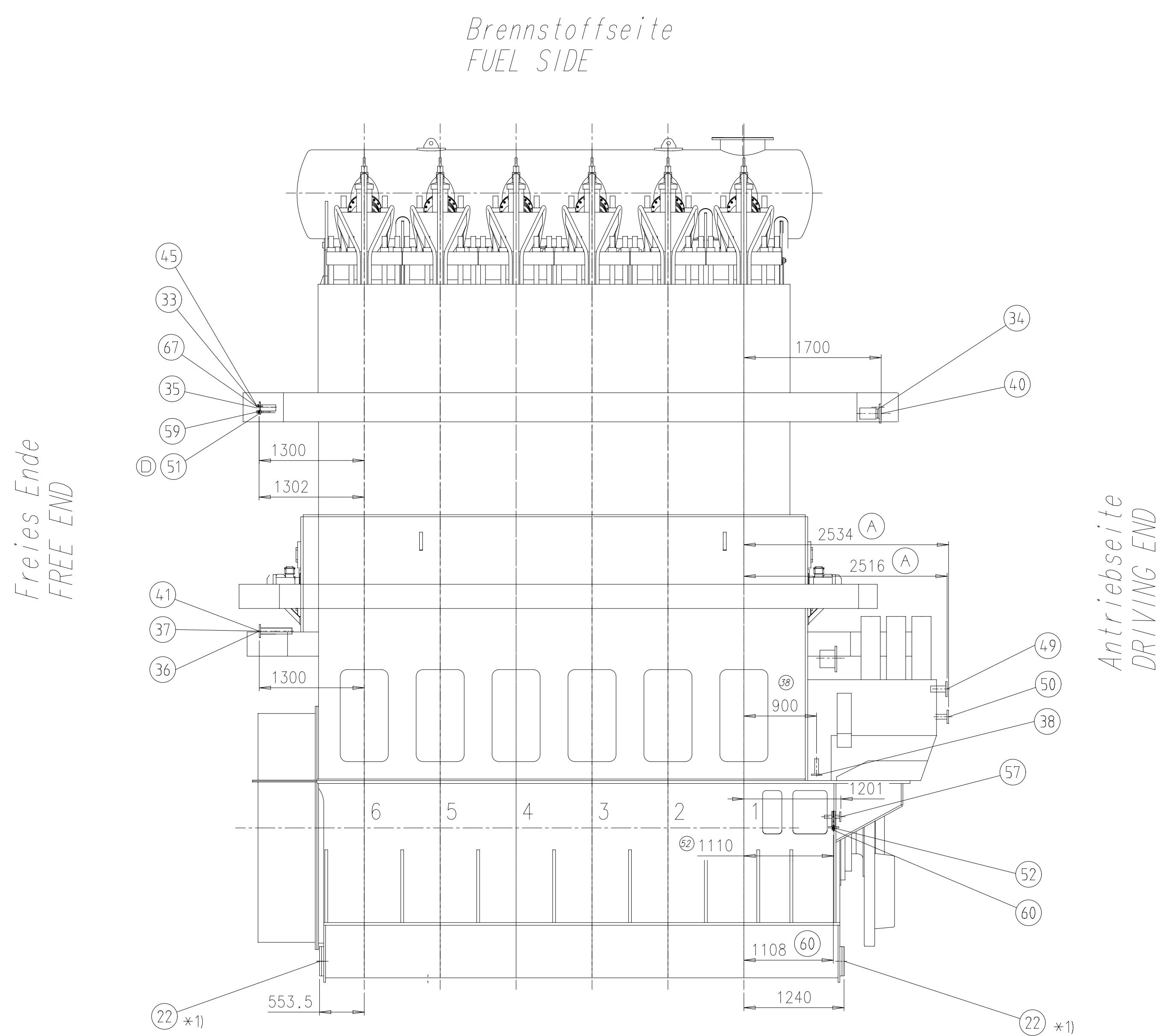
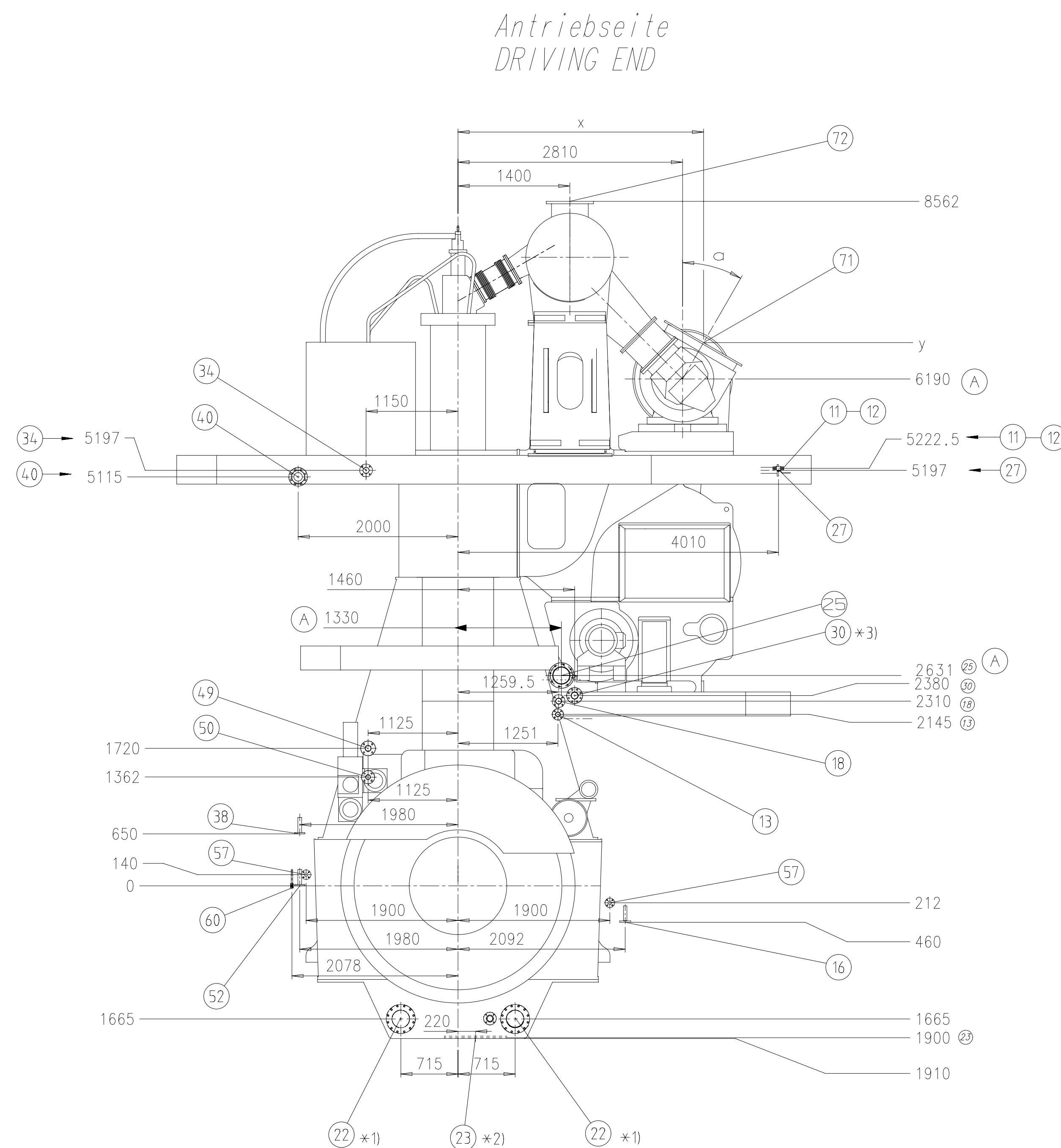
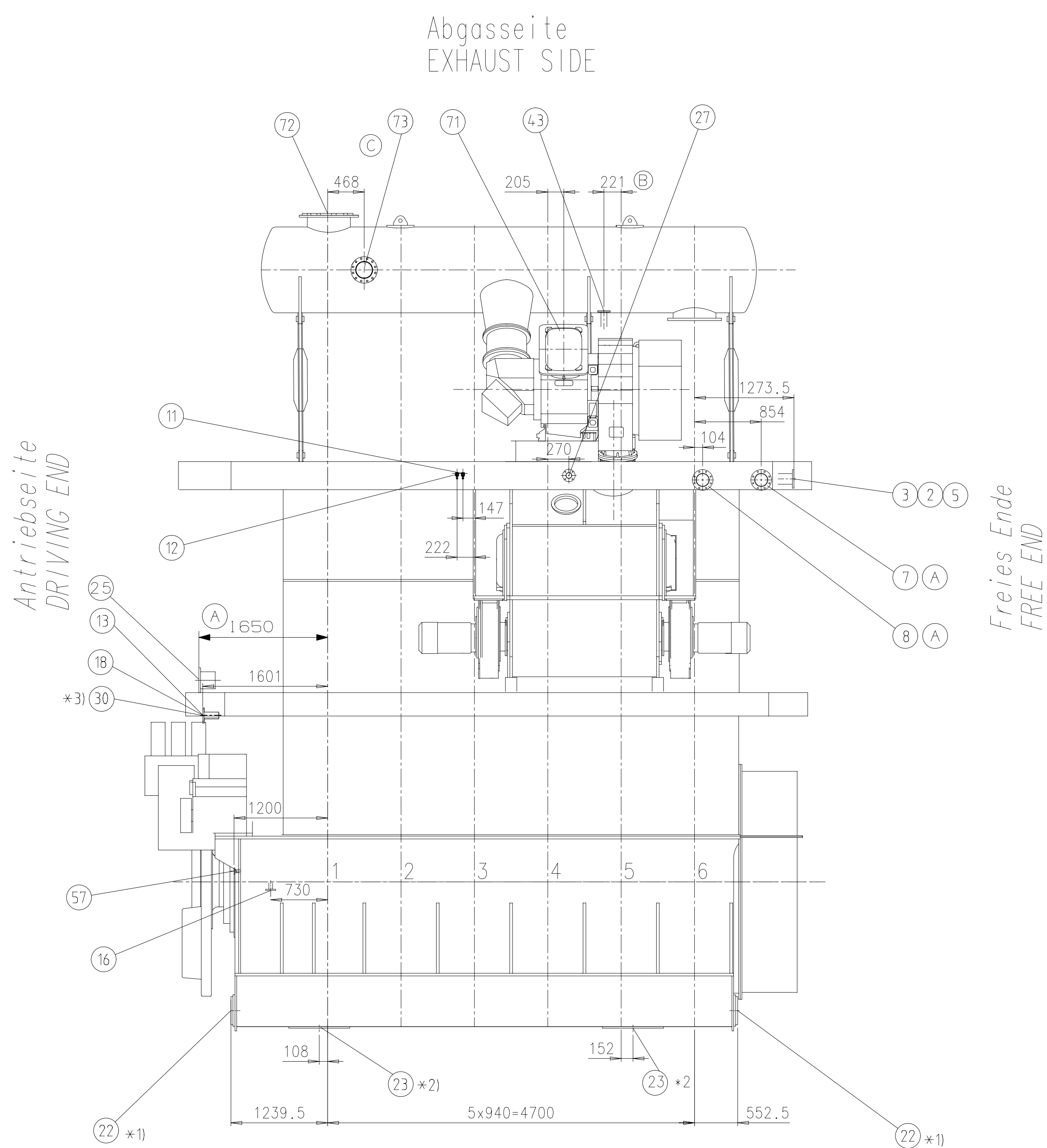
				Ko. Gr. KO. GR.	Leitungs-Anschlüsse PIPE-CONNECTIONS			
					Freies Ende FREE END	Antriebsseite DRIVING END	Abgasseite EXHAUST SIDE	Brennstoffseite FUEL SIDE
51		Leckbrennstoff Rail Unit Austritt	DN 50	8740	X			X
		FUEL LEAKAGE RAIL UNIT OUTLET	PN 6					
52		Leckbrennstoff Austritt	DN 40	8744		X		X
		FUEL LEAKAGE OUTLET	PN 6					
53		Leckbrennstoff HD-Leitungen Austritt	DN	8742				Nicht benoetigt NOT USED
		FUEL LEAKAGE HP-PIPES OUTLET	PN					
54		Leckbrennstoff Einspritzpumpe Austritt	DN	8743				Nicht benoetigt NOT USED
		FUEL LEAKAGE INJECTION PUMP OUTLET	PN					
55								
56		Leckbrennstoff Einspritzeinheit Austritt	DN	8745				Nicht benoetigt NOT USED
		FUEL LEAKAGE ICU OUTLET	PN					
57		Diverse Leckagen Austritt	DN 32	8746		X	X	X
		VARIOUS LEAKAGE OUTLET	PN 6					
58								
59		Begleitheizung Brennstoff Eintritt	DN 15	8810	X			X
		TRACE HEATING FUEL INLET	PN 16					
60		Begleitheizung Brennstoff Austritt	DN 15	8810		X		X
		TRACE HEATING FUEL OUTLET	PN 16					
61		Begleitheizung Brennstoff Eintritt	DN	8812				Nicht benoetigt NOT USED
		TRACE HEATING FUEL INLET	PN					
62		Begleitheizung Brennstoff Austritt	DN	8812				Nicht benoetigt NOT USED
		TRACE HEATING FUEL OUTLET	PN					
63		Begleitheizung Brennstoffzirkulation Eintritt	DN	8820				Nicht benoetigt NOT USED
		TRACE HEATING FUEL CIRCULATION INLET	PN					
64		Begleitheizung Brennstoffzirkulation Austritt	DN	8823				Nicht benoetigt NOT USED
		TRACE HEATING FUEL CIRCULATION OUTLET	PN					
65								
66								
67		Feuerlöschanlage Zylinderblock Eintritt	DN 32	8830	X			X
		FIRE EXTINGUISHING PLANT CYLINDER BLOCK INLET	PN 10					
68		Feuerlöschanlage der Rail Unit Eintritt	DN	8831				Nicht benoetigt NOT USED
		FIRE EXTINGUISHING PLANT RAIL UNIT INLET	PN					
69		Feuerlöschanlage der Rail Unit Eintritt	DN	8832				Nicht benoetigt NOT USED
		FIRE EXTINGUISHING PLANT RAIL UNIT INLET	PN					
70								
71	siehe Detail SEE DETAIL	Abgas Turbolader Austritt		6506		X	X	
		EXHAUST GAS TURBOCHARGER OUTLET	6509					
72	siehe Detail SEE DETAIL	Abgas Bypass Austritt		8103		X	X	
		EXHAUST GAS BY-PASS OUTLET	8108					
73		Ausslassventil *WATE GATE*	DN 125	8135	X		X	
		EXHAUST WATE GATE (TURNING)	PN 10					



1x A165-L
1x A265-L

Free splice Dr. Nr.		B-Code XXXXX Standard ISO		Main Drw.	
Material	A EAAAD088178108.2018	Product Number	B EAAAD09105323.12.2019	Basic Material	C EAAAD09270714.08.2020
	Drban 6016		Drban 6016		D EAAAD09317119.08.2020
					Drban 6016
 Winterthur-Gas & Diesel		Product W6X52		PIPE CONNECTION PLAN Rohranschlussplan	
Units	mm kg	NX		Basic Material	Net weight
Mode	20.06.2018	0332	Baumgartner	Scale 1:1	
Chkd	28.06.2018	hdn002 Dirm		Design Group	
	28.06.2018	mdn060 Dascic		8020	
SURFACE PROTECTION SEE GROUP 0334			Drawing Z/D		Material ID
TOLERANCING PRINCIPLE ISO8015			277		
GENERAL TOLERANCES ACCORDING TO ISO2768-mK			2959500		Rev. D

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Gasaustritt-Stellung GAS OUTLET POSITION 	x	y
15°	2946	6698
30°	3073	6645
45°	3182	6562

- *1) Optional Ausführung (wenn verlangt)
OPTIONAL EXECUTION (IF REQUIRED)
 - *2) Standard Ausführung
STANDARD EXECUTION
*Vorschlag: Endgültige Position
ist mit Werft zu bestimmen*
PROPOSAL: FINAL POSITION TO BE DETERMINED
IN ACCORDANCE WITH SHIPYARD
 - *3) ONLY FOR ENGINE EQUIPPED WITH HIGH PRESSURE
CROSSHEAD BEARING LUBRICATION
- Alle Flanschschlüsse am Motor sind mit Gegenflanschen versehen (Blindflansch), ausgenommen der Anschluss fuer den Gasaustritt am Turbolader. Die Blindflansche sind nach dem betreffenden Rohrdurchmesser des Werflanschlusses auszubohren.*
THE PIPE CONNECTIONS ON THE ENGINE ARE SUPPLIED WITH MATING FLANGES (BLIND), WITH EXCEPTION OF THE TURBOCHARGER EXHAUST GAS OUTLET. BLIND FLANGES TO BE DRILLED TO MATCH PIPE DIA SUPPLIED BY THE SHIPYARD.

DIMENSIONS FOR REFERENCE ONLY.
TECHNICAL MODIFICATIONS RESERVED.
LATER ADAPTATIONS ARE POSSIBLE BASED ON
PROJECT REQUIREMENTS AND RELATED DETAIL DESIGN.
THIS PIPE CONNECTION PLAN MAY NOT BE USED FOR
FINAL DESIGN!

Die Gewinde-Anschlüsse werden komplett geliefert
SCREWED CONNECTIONS ARE SUPPLIED COMPLETE

1 x A165-L
1 x A265-L

Internes TL Oelsystem
INTERNAL TC OIL SYSTEM

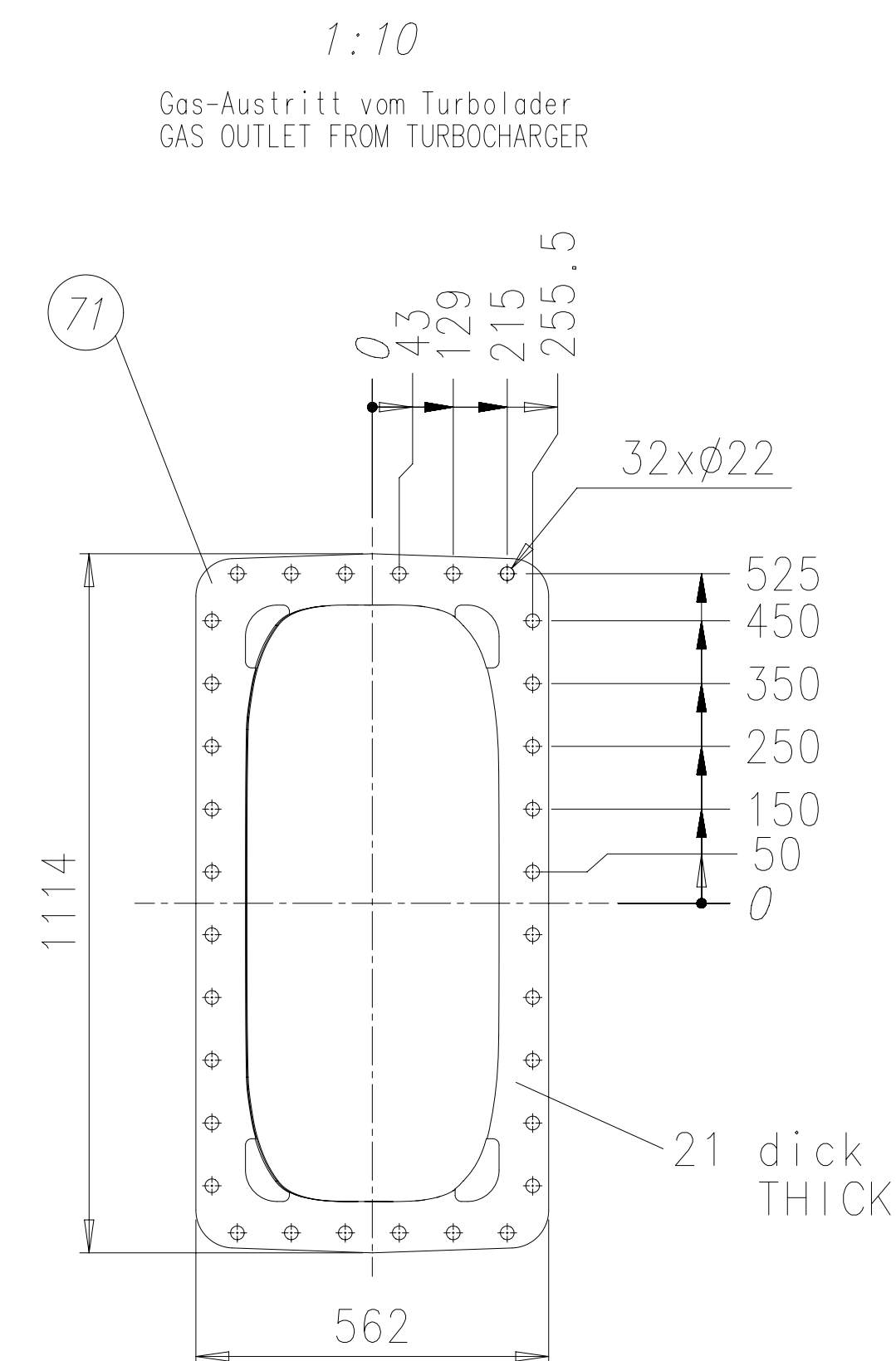
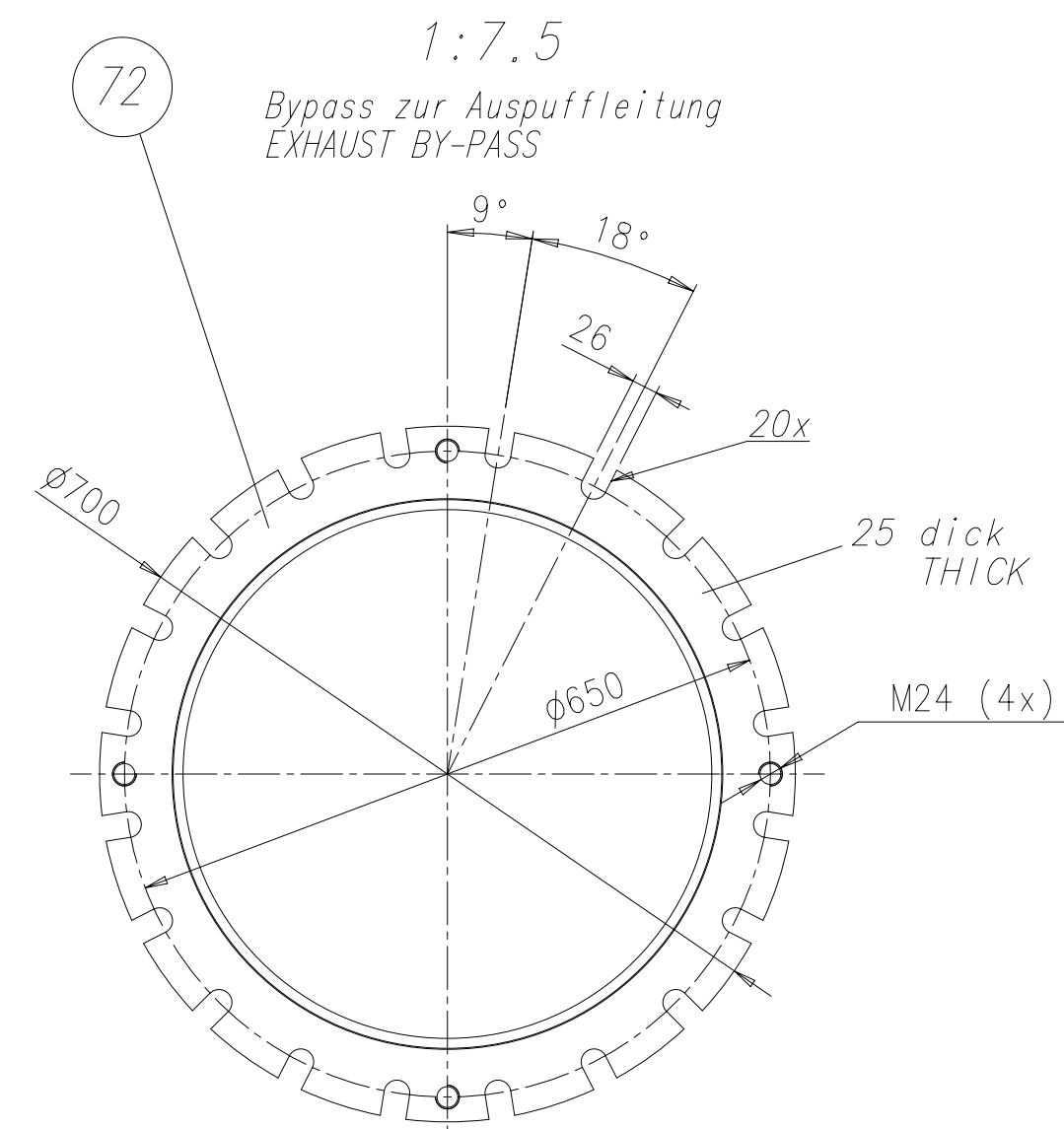
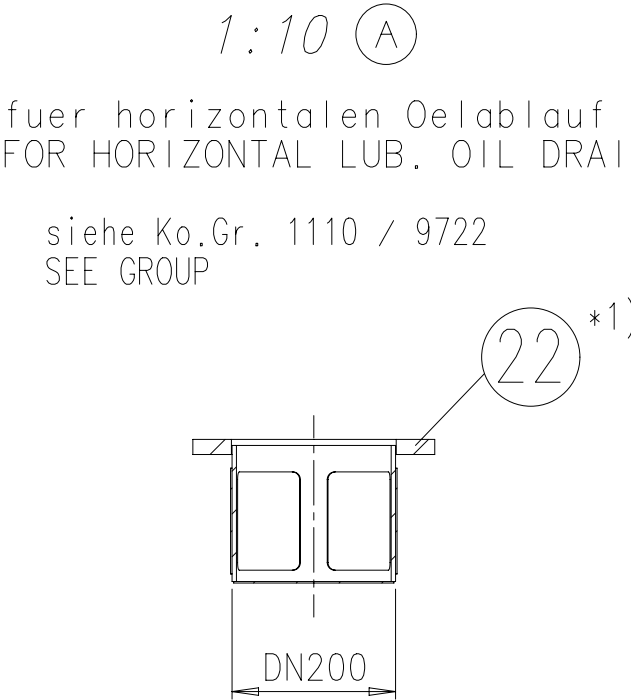
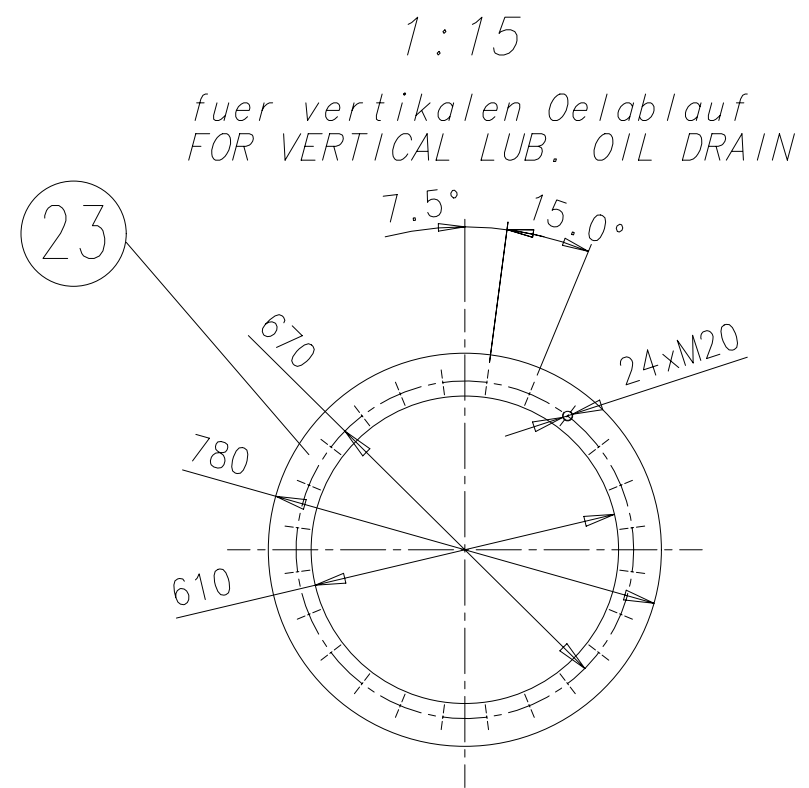
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				Leitungs-Anschlusse PIPE-CONNECTIONS			
				Ko.Gr. KO, GR.	Freies Ende FREE END	Antriebsseite DRIVING END	Abgasseite EXHAUST SIDE
							Brennstoffseite FUEL SIDE
1							
2		Zylinderkühlwasser Eintritt CYLINDER COOLING WATER INLET	DN 125 PN 5	8305	X		X
3		Zylinderkühlwasser Austritt CYLINDER COOLING WATER OUTLET	DN 125 PN 5	8310	X		X
4		Zylinderkühlwasser Entlüftung CYLINDER COOLING WATER VENTING	DN PN	8310	Nicht benoetigt NOT USED		
5		Zylinderkühlwasser Entleerung Austritt CYLINDER COOLING WATER DRAIN OUTLET	DN 20 PN 6	8313	X		X
6		SLK Entleerung Austritt SAC DRAIN OUTLET	DN PN	8314	Nicht benoetigt NOT USED		
7		SLK-NT-Kuehlwasser Eintritt SAC-LT-COOLING WATER INLET	DN 150 PN 5	8335	X		X
8		SLK-NT-Kuehlwasser Austritt SAC-LT-COOLING WATER OUTLET	DN 150 PN 5	8335	X		X
9		SLK-HT-Kuehlwasser Eintritt SAC-HT-COOLING WATER INLET	DN PN	8335	Nicht benoetigt NOT USED		
10		SLK-HT-Kuehlwasser Austritt SAC-HT-COOLING WATER OUTLET	DN PN	8335	Nicht benoetigt NOT USED		
11		Wasser fuer Reinigungsanlage TL und SLK Eintritt WATER FOR CLEANING PLANT TC AND SAC INLET	DN 20 PN 16	8338		X	X
12		Luft fuer Reinigungsanlage TL und SLK Eintritt AIR FOR CLEANING PLANT TC AND SAC INLET	DN 20 PN 16	8338		X	X
13		Öliges Wasser vom Receiver Austritt OILY WATER FROM RECEIVER OUTLET	DN 50 PN 5	8352		X	X
14		Turbolader Schmutzwasser Austritt TURBOCHARGER DIRTY WATER OUTLET	DN PN	8355	Nicht benoetigt NOT USED		
15		Ablauf vom Wasserabscheider Austritt WATER DRAIN FROM WATERSEPARATOR OUTLET	DN PN	8356	Nicht benoetigt NOT USED		
16		SLK Kondenswasser Austritt SAC CONDENSATE WATER OUTLET	DN 40 PN 5	8357		X	X
17		SLK Waschwasser Austritt SAC WASHING WATER OUTLET	DN PN	8357	Nicht benoetigt NOT USED		
18		SLK Entlüftung CYLINDER LUB. OIL OUTLET	DN 65 PN 5	8357		X	X
19							
20							
21							
22	siehe Detail SEE DETAIL	Ölablauf Grundplatte Horizontal OIL DRAIN BEDPLATE HORIZONTAL		1110	X	X	X
23	siehe Detail SEE DETAIL	Ölablauf Grundplatte Vertikal OIL DRAIN BEDPLATE VERTICAL		1110 9722	X	X	X
24		Zylinder Schmieroel Austritt CYLINDER LUB. OIL OUTLET	DN PN	8472	Nicht benoetigt NOT USED		
25		Hauptschmieroel Eintritt MAIN LUBRICATING OIL INLET	DN 200 PN 5	8406		X	X

*3) ONLY FOR ENGINE EQUIPPED WITH HIGH PRESSURE
CROSSHEAD BEARING LUBRICATION

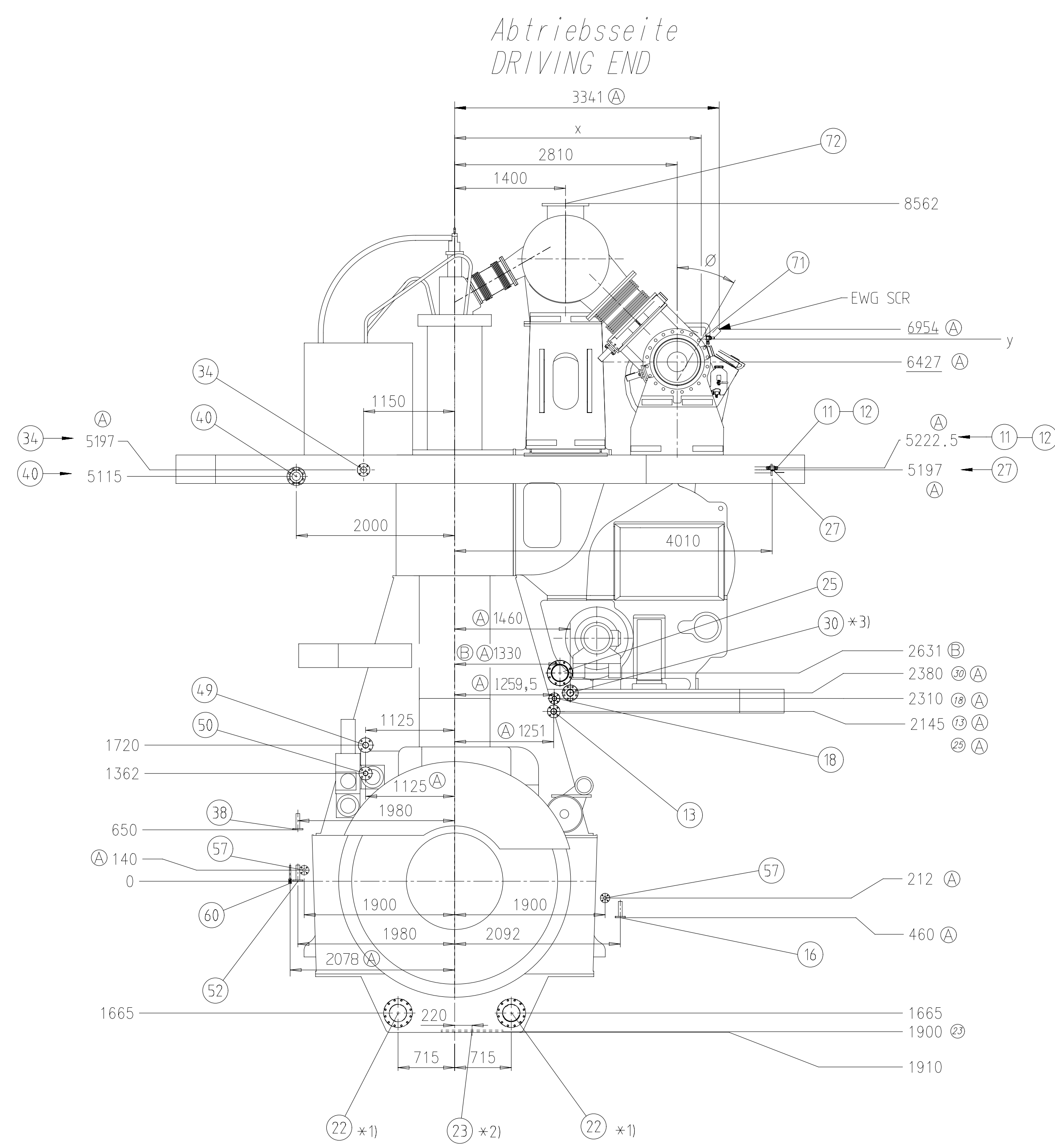
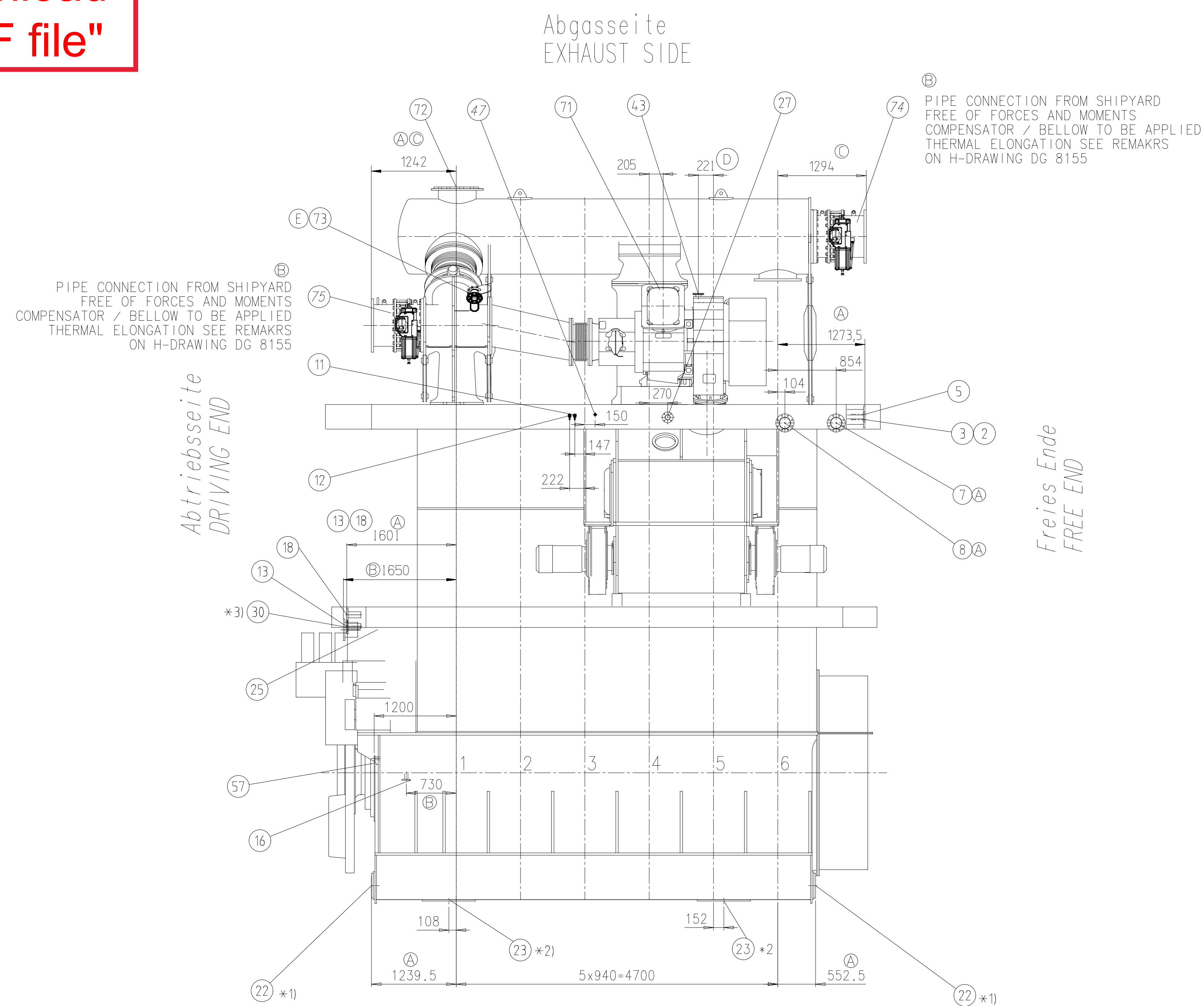
				Leitungs-Anschlusse PIPE-CONNECTIONS			
				Ko.Gr. KO, GR.	Freies Ende FREE END	Antriebsseite DRIVING END	Abgasseite EXHAUST SIDE
							Brennstoffseite FUEL SIDE
26		Schmieroel Turbolader Eintritt LUBRICATING OIL TURBOCHARGER INLET	DN PN	8430	Nicht benoetigt NOT USED		
27		Schmieroel Turbolader Austritt LUBRICATING OIL TURBOCHARGER OUTLET	DN 65 PN 5	8431		X	X
28		Spueloel Automatikfilter Austritt FLUSHING OIL AUTOMATIC FILTER OUTLET	DN PN	8445	Nicht benoetigt NOT USED		
29		Schmutzoel Ablauf Versorgungseinheit Austritt DIRTY OIL DRAIN SUPPLY UNIT OUTLET	DN PN	8452	Nicht benoetigt NOT USED		
30		Schmieroel Kreuzkopf Eintritt LUBRICATING OIL CROSSHEAD INLET	DN 100 PN 16	8455		X	X
31		Leckagen vom Motor Austritt DIRTY OIL LEAKAGE FROM ENGINE OUTLET	DN PN	8463	Nicht benoetigt NOT USED		
32		Zylinder Schmieroel Eintritt CYLINDER LUB. OIL INLET	DN PN	8473	Nicht benoetigt NOT USED		
33		Zylinder Schmieroel Eintritt CYLINDER LUB. OIL INLET	DN 25 PN 5	8475	X		X
34		Leckoel Antriebsseite Austritt LEAKAGE OIL DRIVING END OUTLET	DN 65 PN 5	8482		X	X
35		Leckoel Freies Ende Austritt LEAKAGE OIL FREE END OUTLET	DN 65 PN 5	8483	X		X
36		Schmutzoel Kolbenunterseite Austritt DIRTY OIL PISTON UNDERSIDE OUTLET	DN 65 PN 5	8487	X		X
37		Leckoel Stopfbuechse Austritt LEAKAGE OIL GLAND BOX OUTLET	DN 25 PN 5	8488	X		X
38		Ölablaufflg. Versorgungseinheit Austritt OIL PIPE DRAIN SUPPLY UNIT OUTLET	DN 40 PN 5	8454		X	X
39		Leckageablauf Zylinderblock Austritt LEAKAGE DRAIN CYLINDER BLOCK OUTLET	DN PN	8462	Nicht benoetigt NOT USED		
40		Anlassluft Eintritt STARTING AIR PIPE INLET	DN 100 PN 40	8605		X	X
41		Entlüftung Kurbelgehäuse Austritt VENTING CRANKCASE OUTLET	DN 65 PN 5	8608	X		X
42		Entlüftung Waste Gate Austritt VENTING WASTE GATE OUTLET	DN PN	8609	Nicht benoetigt NOT USED		
43		Entlüftung Turbolader Austritt VENTING TURBOCHARGER OUTLET	DN 65 PN 5	8610	X		X
44							
45		Steuerluftversorgung Eintritt CONTROL AIR SUPPLY INLET	DN 15 PN 12	8630	X		X
46		Steuerluftversorgung Eintritt CONTROL AIR SUPPLY INLET	DN PN	4605	Nicht benoetigt NOT USED		
47		Steuerluftzultg. Ventile Eintritt CONTROL AIR SUPPLY VALVE INLET	DN PN	8631	Nicht benoetigt NOT USED		
48							
49		Brennstoff Eintritt FUEL INLET	DN 65 PN 16	8702		X	X
50		Brennstoffruecklauf Austritt FUEL RETURN OUTLET	DN 65 PN 16	8704		X	X

				Leitungs-Anschlusse PIPE-CONNECTIONS			
				Ko.Gr. KO, GR.	Freies Ende FREE END	Antriebsseite DRIVING END	Abgasseite EXHAUST SIDE
							Brennstoffseite FUEL SIDE
51		Leckbrennstoff Rail Unit Austritt FUEL LEAKAGE RAIL UNIT OUTLET	DN 50 PN 5	8740	X		X
52		Leckbrennstoff Austritt FUEL LEAKAGE OUTLET	DN 40 PN 5	8744		X	X
53		Leckbrennstoff HD-Leitungen Austritt FUEL LEAKAGE HP-PIPES OUTLET	DN PN	8742	Nicht benoetigt NOT USED		
54		Leckbrennstoff Einspritzpumpe Austritt FUEL LEAKAGE INJECTION PUMP OUTLET	DN PN	8743	Nicht benoetigt NOT USED		
55							
56		Leckbrennstoff Einspritzeinheit Austritt FUEL LEAKAGE ICU OUTLET	DN PN	8745	Nicht benoetigt NOT USED		
57		Diverse Leckagen Austritt VARIOUS LEAKAGE OUTLET	DN 32 PN 5	8746		X	X
58							
59		Begleitheizung Brennstoff Eintritt TRACE HEATING FUEL INLET	DN 15 PN 16	8810	X		X
60		Begleitheizung Brennstoff Austritt TRACE HEATING FUEL OUTLET	DN 15 PN 16	8810		X	X
61		Begleitheizung Brennstoff Eintritt TRACE HEATING FUEL INLET	DN PN	8812	Nicht benoetigt NOT USED		
62		Begleitheizung Brennstoff Austritt TRACE HEATING FUEL OUTLET	DN PN	8812	Nicht benoetigt NOT USED		
63		Begleitheizung Brennstoffzirkulation Eintritt TRACE HEATING FUEL CIRCULATION INLET	DN PN	8820	Nicht benoetigt NOT USED		
64		Begleitheizung Brennstoffzirkulation Austritt TRACE HEATING FUEL CIRCULATION OUTLET	DN PN	8823	Nicht benoetigt NOT USED		
65							
66							
67		Feuerloesch Anlage Zylinderblock Eintritt FIRE EXTINGUISHING PLANT CYLINDER BLOCK INLET	DN 32 PN 10	8830	X		X
68		Feuerloesch Anlage Rail Unit Eintritt FIRE EXTINGUISHING PLANT RAIL UNIT INLET	DN PN	8831	Nicht benoetigt NOT USED		
69		Feuerloesch Anlage Rail Unit Eintritt FIRE EXTINGUISHING PLANT RAIL UNIT INLET	DN PN	8832	Nicht benoetigt NOT USED		
70							
71	siehe Detail SEE DETAIL	Abgas Turbolader Austritt EXHAUST GAS TURBOCHARGER OUTLET		6506 6509		X	X
72	siehe Detail SEE DETAIL	Abgas Bypass Austritt EXHAUST GAS BY-PASS OUTLET		8103 8108		X	X
73		Auslassventil *WATE GATE* EXHAUST WATE GATE (TUNING)	DN 125 PN 10	8135	X		X



1x A165-L
1x A265-L

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"DXF file"



(P)			
(A)	Gasaustritt-Stellung GAS OUTLET POSITION	x	y
			
	15°	2946	6698
	30°	3073	6645
	45°	3182	6562

- *1) Optionale Ausführung (falls verlangt)
OPTIONAL EXECUTION (IF REQUIRED)
- *2) Standard Ausführung
STANDARD EXECUTION

Vorschlag: Endgültige Position
ist mit der Werft zu bestimmen
PROPOSAL: FINAL POSITION TO BE DETERMINED
IN ACCORDANCE WITH SHIPYARD

- *3) ONLY FOR ENGINE EQUIPPED WITH HIGH PRESSURE CROSSHEAD BEARING LUBRICATION

Alle Flansanschlüsse am Motor sind mit Gegenflanschen versehen (Blindflansch), ausgenommen der Anschluss fürden Gasaustritt am Turbolader. Die Blindflansche sind nach dem betreffenden Rohrdurchmesser des Werftanschlusses aufzubohren.
THE PIPE CONNECTIONS ON THE ENGINE ARE SUPPLIED WITH MATING FLANGES (BLIND), WITH EXCEPTION OF THE TURBOCHARGER EXHAUST GAS OUTLET. BLIND FLANGES TO BE DRILLED TO MATCH PIPE DIA SUPPLIED BY THE SHIPYARD.

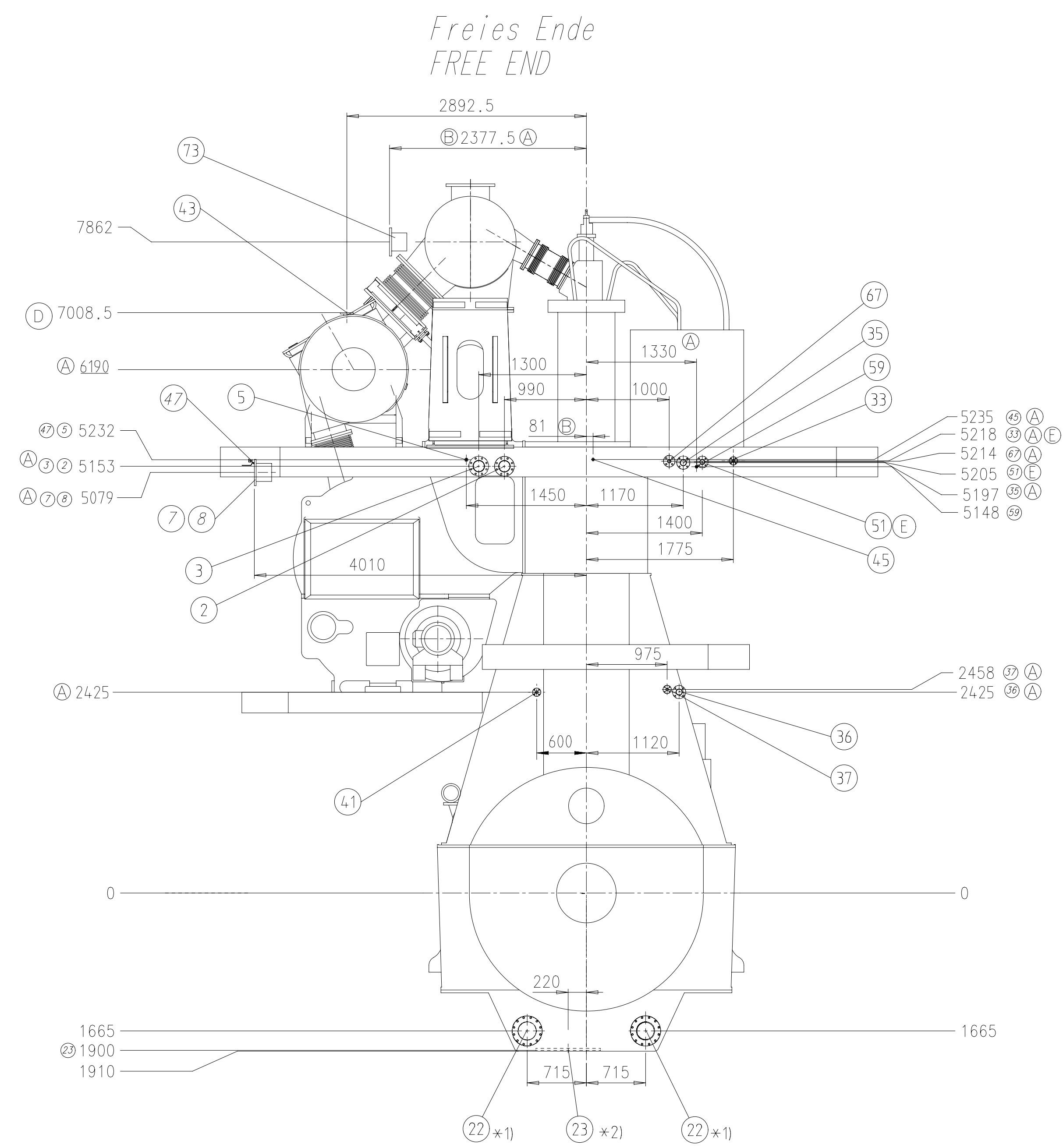
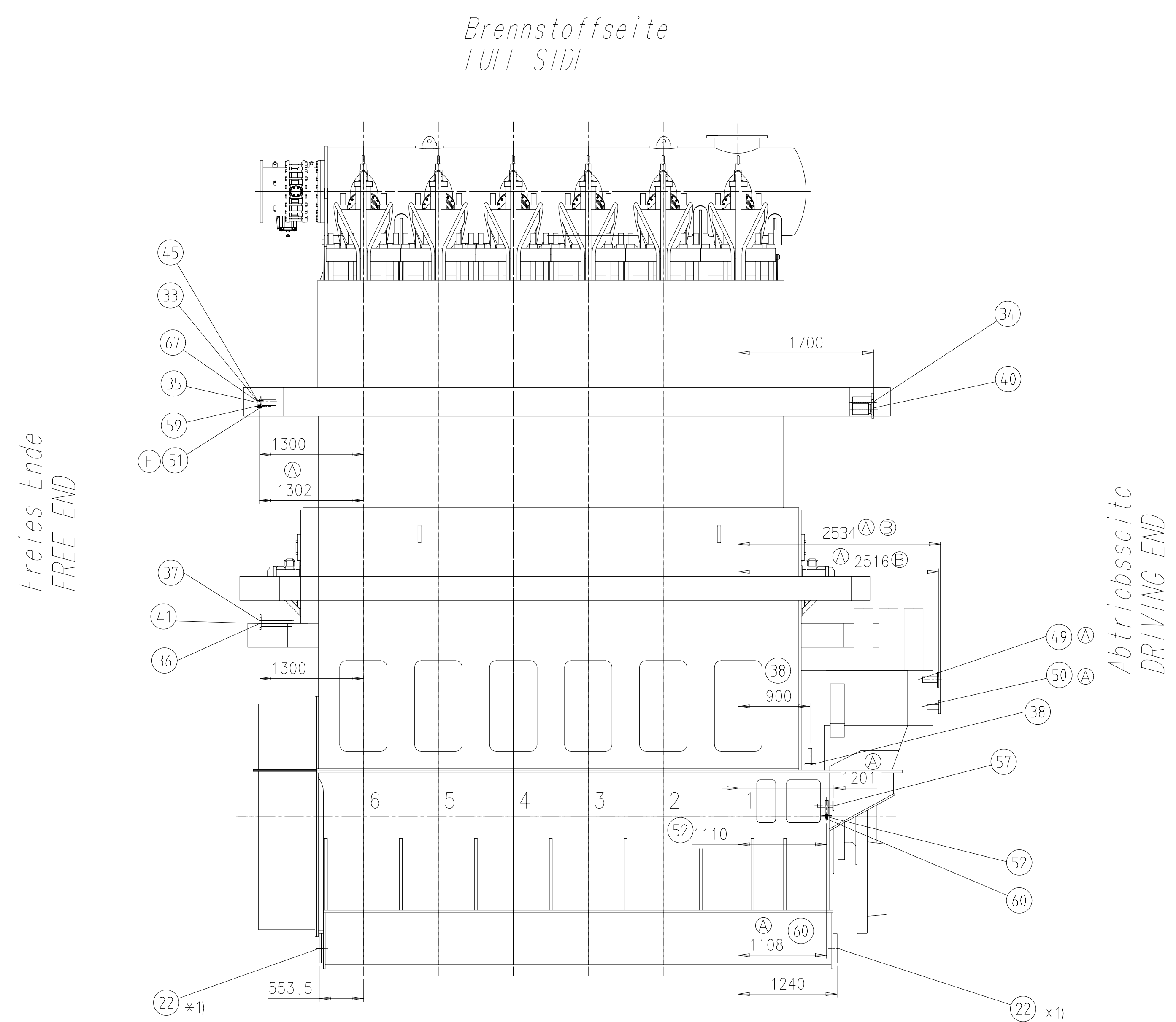
Die Gewinde-Anschlüsse werden komplett geliefert
SCREWED CONNECTIONS ARE SUPPLIED COMPLETE

1 x A165-L / A265-L (axial) ©

Internes TL Ölsystem
INTERNAL TC OIL SYSTEM

Ⓔ DIMENSIONS FOR REFERENCE ONLY.
TECHNICAL MODIFICATIONS RESERVED.
LATER ADAPTATIONS ARE POSSIBLE BASED ON
PROJECT REQUIREMENTS AND RELATED DETAIL DESIGN
THIS PIPE CONNECTION PLAN MAY NOT BE USED FOR
FINAL DESIGN!

gezeichnet fuer A165-L ©
DRAWN FOR



		(Weight)				0,00t							
PER ENGINE	1	001	107.390.729.500		FLANGE DIMENSIONS		107.390.729		Q,00				
		SEQ NO	Material ID		Material Name		Standard or Drawing		Basic Material Material Standard				
									Weight GR./NET				
	2	148464	Fine space LSP size							H			
Material	Model	B	EAAAD088478	31.08.2018	C	EAAAD09069	14.02.2019	D	EAAAD09053	23.12.2019	E	EAAAD093071	14.05.2020
		Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date		

 Winterthur Gas & Diesel	Product W6X52	PIPE CONNECTION PLAN HP SCR Rohranschlussplan HP SCR
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SURFACE PROTECTION SEE GROUP 0344		Unit	23.12.2016	ast1044	A.Stephon	Scale	1:40	Size	A0	Page	1/2	Material		Rev	
TOLERANCING PRINCIPLE ISO8015		Chkd	02.03.2017	hda002	Darre	Design Group									
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd	03.03.2017	mde006	Dacic		8020	Drawing ID	DAAD085300					Rev.	E

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ISO													
6 bar							16 bar						
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS		
	25	100	14	75	4	M10	25	115	16	85	4	M12	14
	32	120	16	90	4	M12	32	140	18	100	4	M16	18
	40	130	16	100	4	M12	40	150	18	110	4	M16	18
	50	140	16	110	4	M12	50	165	19	125	4	M16	18
	65	160	16	130	4	M12	65	185	20	145	8	M16	18
	80	190	18	150	4	M16	80	200	20	160	8	M16	18
	100	210	18	170	4	M16	100	220	22	180	8	M16	18
	125	240	20	200	8	M16	125	250	22	210	8	M16	18
	150	265	20	225	8	M16	150	285	24	240	8	M20	22
	200	320	22	280	8	M16	200	340	26	295	12	M20	22
	250	375	24	335	12	M16	250	405	32	355	12	M24	26
	300	440	24	395	12	M20	300	460	32	410	12	M24	26
	350	490	26	445	12	M20	350	520	35	470	16	M24	26
	400	540	28	495	16	M20	400	580	38	525	16	M27	30
	450	595	30	550	16	M20	450	640	42	585	20	M27	30
	500	645	30	600	20	M20	500	715	46	650	20	M30	33
10 bar							40 bar						
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS		
	25	115	16	85	4	M12	25	115	16	85	4	M12	14
	32	140	18	100	4	M16	32	140	18	100	4	M16	18
	40	150	18	110	4	M16	40	150	18	110	4	M16	18
	50	165	19	125	4	M16	50	165	20	125	4	M16	18
	65	185	20	145	8	M16	65	185	22	145	8	M16	18
	80	200	20	160	8	M16	80	200	24	160	8	M16	18
	100	220	22	180	8	M16	100	235	26	190	8	M20	22
	125	250	22	210	8	M16	125	270	28	220	8	M24	26
	150	285	24	240	8	M20	150	300	30	250	8	M24	26
	200	340	24	295	8	M20	200	375	36	320	12	M27	30
	250	395	26	350	12	M20	250	450	44	385	12	M30	33
	300	445	26	400	12	M20	300	515	48	450	16	M30	33
	350	505	28	460	16	M20	350	580	54	510	16	M33	36
	400	565	32	515	16	M24	400	660	60	585	16	M36	39
	450	615	38	565	20	M24							
	500	670	38	620	20	M24							

JIS													
5 bar							16 bar						
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS		
	25	95	10	75	4	M10	25	125	14	90	4	M16	19
	32	115	12	90	4	M12	32	135	16	100	4	M16	19
	40	120	12	95	4	M12	40	140	16	105	4	M16	19
	50	130	14	105	4	M12	50	155	16	120	8	M16	19
	65	155	14	130	4	M12	65	175	18	140	8	M16	19
	80	180	14	145	4	M16	80	200	20	160	8	M20	23
	100	200	16	165	8	M16	100	225	22	185	8	M20	23
	125	235	16	200	8	M16	125	270	22	225	8	M22	25
	150	265	18	230	8	M16	150	305	24	260	12	M22	25
	200	320	20	280	8	M20	200	350	26	305	12	M22	25
	250	385	22	345	12	M20	250	430	28	380	12	M24	27
	300	430	22	390	12	M20	300	480	30	430	16	M24	27
	350	480	24	435	12	M22	350	540	34	480	16	M30	33
	400	540	24	495	16	M22	400	605	38	540	16	M30	33
	450	605	24	555	16	M22	450	675	40	605	20	M30	33
	500	655	24	605	20	M22	500	730	42	660	20	M30	33
10 bar							30 bar						
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS		
	25	125	14	90	4	M16	25	130	20	95	4	M16	19
	32	135	16	100	4	M16	32	140	22	105	4	M16	19
	40	140	16	105	4	M16	40	160	22	120	4	M20	23
	50	155	16	120	4	M16	50	165	22	130	8	M16	19
	65	175	18	140	4	M16	65	200	26	160	8	M20	23
	80	185	18	150	8	M16	80	210	28	170	8	M20	23
	100	210	18	175	8	M16	100	240	32	195	8	M22	25
	125	250	20	210	8	M20	125	275	36	230	8	M22	25
	150	280	22	240	8	M20	150	325	38	275	12	M24	27
	200	330	22	290	12	M20	200	370	42	320	12	M24	27
	250	400	24	355	12	M22	250	450	48	390	12	M30	33
	300	445	24	400	16	M22	300	515	52	450	16	M30	33
	350	490	26	445	16	M22	350	560	54	495	16	M30	33
	400	560	28	510	16	M24	400	630	60	560	16	M36	39
	450	620	30	565	20	M24							
	500	675	30	620	20	M24							

Substitute for:										PC	Q-Code	X	X	X	X	X
Modif	A	EAAD084180	04.10.2012													
		Number	Drawn Date		Number	Drawn Date		Number	Drawn Date		Number	Drawn Date				
		Product W-2S				Flange Dimensions										
Made	19.09.2007	N. Brand			Main Drw.	Page 1 / 1	Material ID 107.390.729.500									
Chkd	27.09.2007	M. Frei			Design Group	Drawing ID 107.390.729										Rev A
Appd	27.09.2007	B. Haag			8020											

WinGD-6X52_Pipe-Connection-Plan

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2018-02-26	DRAWING SET	First web upload
2020-09-20	DAAD299500	New Pipe connection plan for Turbocharger type 1xA265-L_ISO has been added.
	DAAD085300	
	DAAD088027	Revised Pipe connection plan for Turbocharger type 1xA265-L_JIS
2021-05-15	DAAD085300	Revised Pipe connection plan for Turbocharger type 1xA165-L/A265-L_JIS_HP-SCR has been updated.
2020-08-31	DAAD299500 DAAD088027 DAAD085300	Revised Pipe connection plans for Turbocharger type 1xA165-L/A265-L_ for ISO, JIS and JIS (HP-SCR) have been updated.
2021-05-20	PAAD299500 PAAD255630 PAAD248846	Revised Pipe connection plans for Turbocharger type 1xA165-L/A265-L_ for ISO, JIS and JIS (HP-SCR) have been updated.

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