

Also measurement of air distribution at registers was done using "Brandel" pipe. Such test showed that burner No. IV got slightly more air than the remaining units which had even distribution.
Length of flames was also found in good order.
With full load at boiler, flame tips are only temporarily touching boiler rear wall.

The lengthening as carried out and the values obtained from test runs will be verified by Messrs. Babcock by way of computation. If the measured readings were confirmed it would be required to lengthen all of the blower impellers similarly. Such procedure could be done in conjunction with the intended installation of new fuel oil regulating valves. Then the fuel oil/air ratio should be adjusted to its best possible figure.

However balancing, cleaning and overhaul of blowers should necessarily be carried out on completion of refit. In addition, improvement should possibly be reached with the articulation of blower flap actuators. And also existing O₂ gauge should be overhauled so as to obtain optimum O₂ values in operation. A CO₂ test performed with the "Orsat" unit showed 12 % CO₂ which is a non-acceptable reading in consideration of today's requirements for fuel saving.

For 2-boiler operation it would be required to re-adapt boiler regulation to the turbine remote control, particularly with regard to astern movement.
The flue gas turbidity unit should be connected to the alarm system via an additional relay to obtain immediate indication in case of flue gas turbidity.

As a result of the test run it has been found that it is possible to burn 6 ton/h fuel oil after conversion of blowers.

During the final meeting with owners, I was requested by Mr. Borresen to see to it that an estimate for opening of high pressure turbines be prepared, with regard to modification of nozzles. The price quoted by AG Weser in May 1982 seemed very high to him. Also the installation of shut-off valve for the 6-nozzle group to be quoted for. An overall tender was made up by AG Weser in May 1982 in conjunction with a calculation about fuel oil saving.

For the intended conversion of fuel oil regulating valves I should like to make an arrangement with Messrs. Siemens as to time and procedure, and submit an evaluation of the intended proceedings to Mr. Borresen.

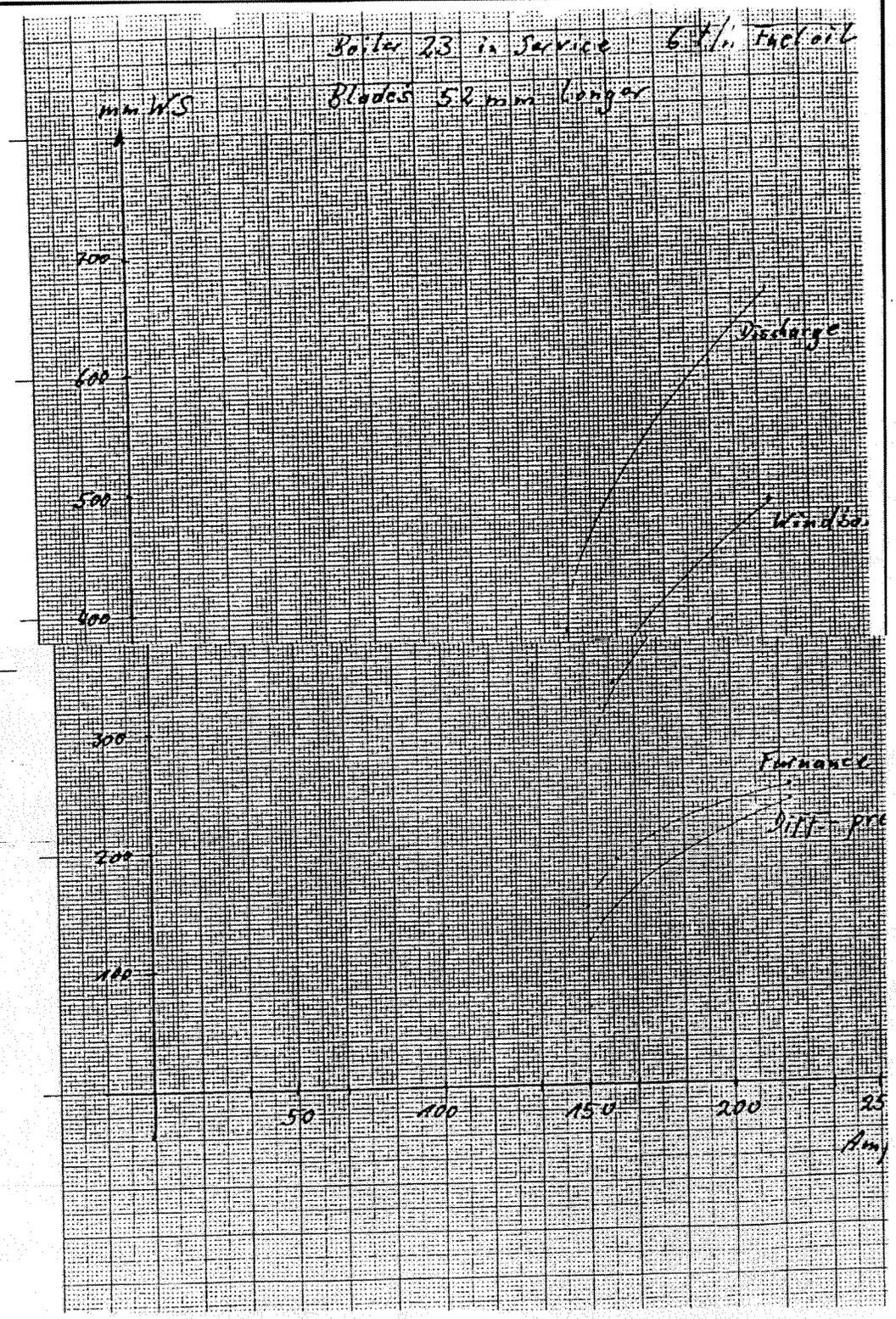
In any other respect he expressed his satisfaction about our test run and its results.

Bremerhaven, June 27th, 1983 / We.

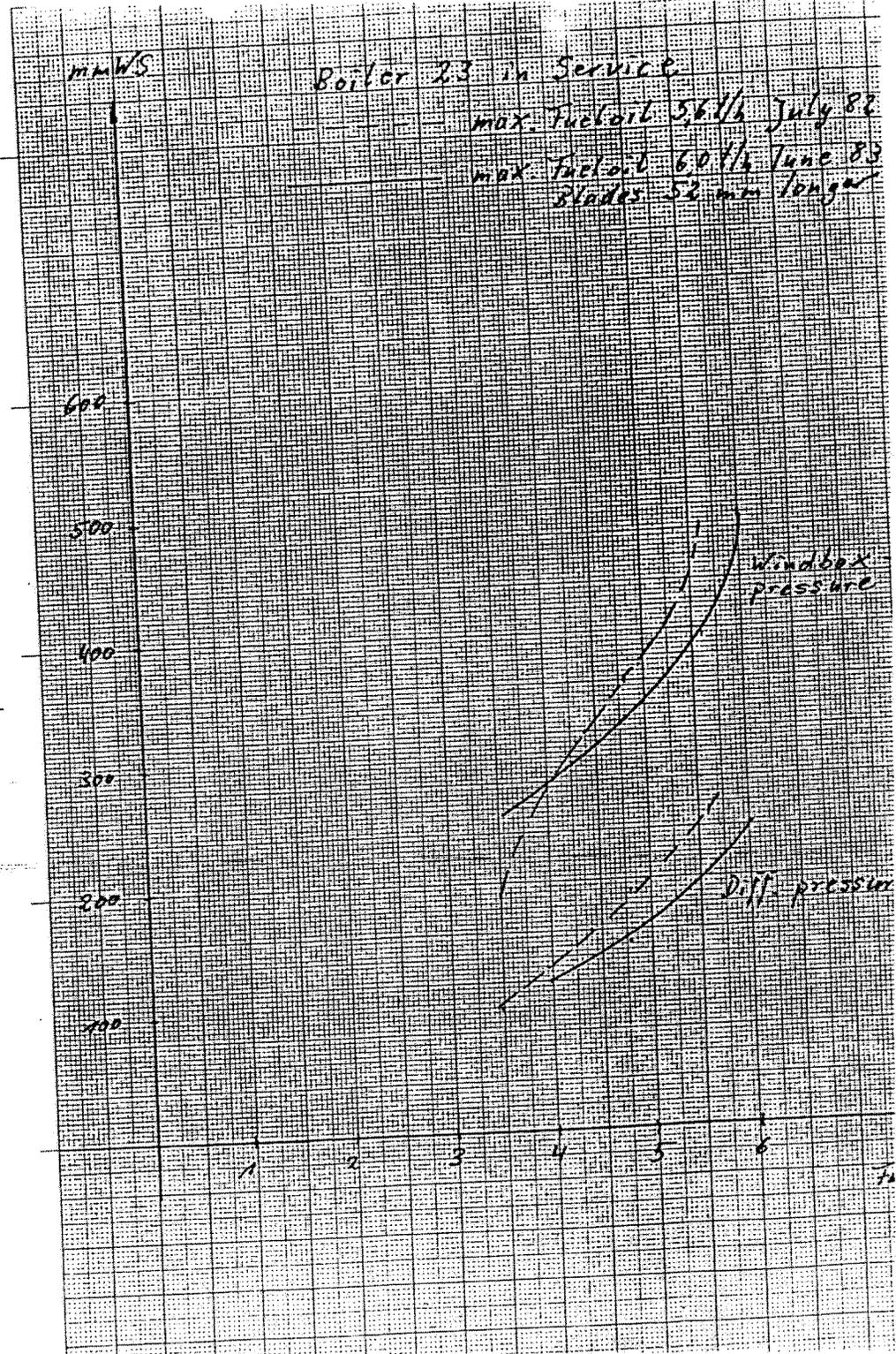
signed S a t o w

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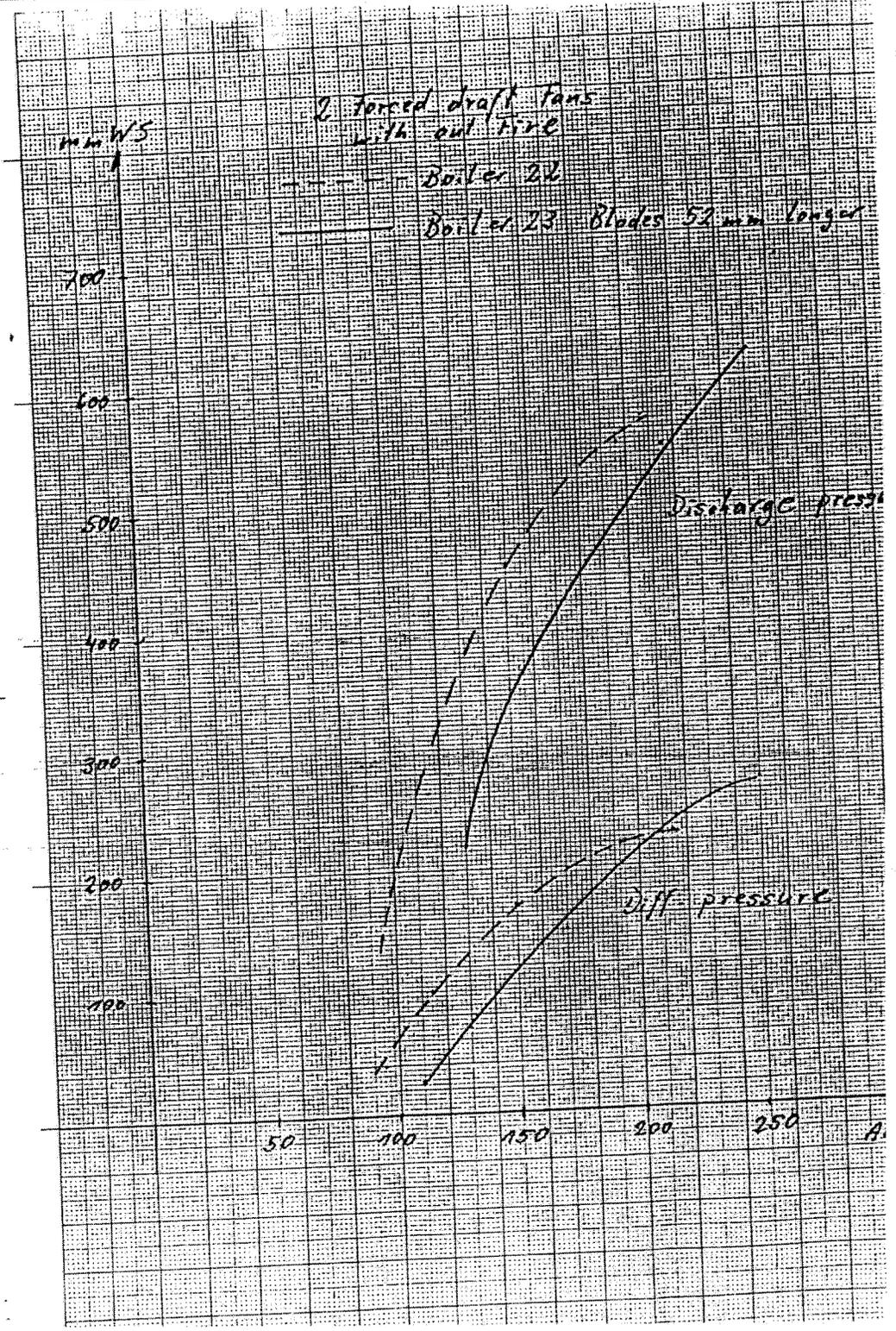
Gebläsemessungen *Hessel 22 ohne Feuer*

Klappen Stellung	Luft Leitgerät	Gebläse Last	Schaufel h. <i>cht verlängert</i>	Druck am Gebläse					Differ.dr.	Datum: <i>23.06.85</i>	Bemerkung
				Druck selt.	Windb.	Feuert.	Saug.	Differ.dr.			
♠	♠	Amp.		mm SW	mm SW	mm SW	mm SW	mm WS			
5	20	110		145	120	85		40			
22	40	125		200	220	130		100			
45	60	160		480	350	175		175			
70	80	200		590		205		220			
95	90	240		690	410	215		230			

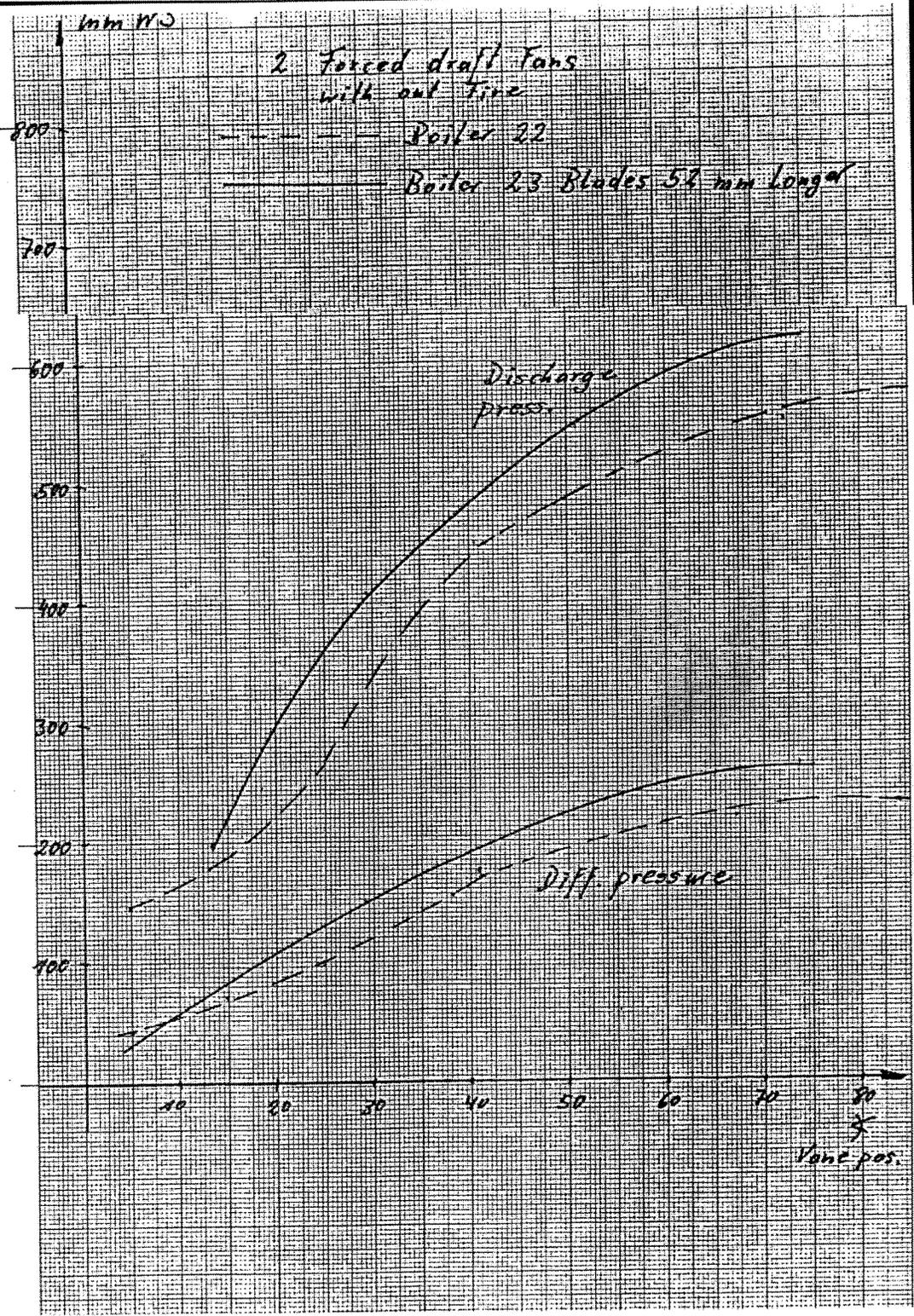
Gebläsemessungen Kessel 23 ohne Feuer

Stellung	Luft Leitgerät	Gebläse Last	Schaufel verlängert:	Druck am Gebläse				Differenz	Saugst.	Differenz	Bemerkung
				Druck- seitl.	Windb.	Penetr.	Saugst.				
	%	Amp.		mm WS	mm WS	mm WS	mm WS	mm WS	mm WS		
5	20 / 100	100 / 225	70	45	35	2	2	2	2	17.06.	
5	40 / 120	140	220	130	67					2 Gebläse parallel	
5	60 / 140	180	440	250	150						
5	80 / 160	220	550	365	150						
5	100 / 200	260	620	450	185						
			Verteilung Luft an Brenner:								
			Brenner I:	Brenner II:	Brenner III:	Brenner IV:					
			70 mm WS	70 mm WS	70 mm WS	78 mm WS					
			Brenner V:								
			70 mm WS								

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Messung des Gebläse Einströms

Gebläsemessungen

Klappen Stellung	Luft Belagerat	Gebläse Last	Druck am Gebläse				Saug- druck	Differ. druck	Bemerkung
			Druck- seit.	Windb.	Fenerr.	Saug- druck			
		Amp.	mm WS	mm WS	mm WS	mm WS	mm WS		
4	20	132	110	26	20		8		
12	40	140	130	46	36		12	Gebläse	
25	60	170	100	90	56		50	unten	
45	80	220		144	80		76		
70	100	280	310	185	90		100		
	40	100		30	20		13		
30	60	140	150	85	48		40	Gebläse	
55	80	225	260	150	75		80	oben	
78	100	280	330	195	90		110		

Datum: 19.06.25

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