

PORT **Helsingfors**

No. 7253

## LLOYD'S REGISTER OF SHIPPING

**STEEL ENGINE FORGINGS**

I have to report that the Forgings ~~as described~~, as herein described, manufactured by Messrs. LoKomo Oy of Tampere (Ref.Nr 44896)

\*~~for the Engine~~~~being manufactured by~~

xpt

for the Ship No. 202

being built by Messrs. Valmet Oy

Helsingin Telakka

of Helsinki

have been inspected by me as set forth below, and found to be, so far as can be seen, sound and free from defects. These have been despatched to Messrs. Valmet Oy, Helsingin Telakka, Helsinki (Order No. 82041 N 7.1.59).

ITEM	2 PROPELLER SHAFTS, 2 INTERMEDIATE SHAFTS.
Identification No.	NR 23422, <u>23445</u> , 23469, 23465 4.9.59.
Surveyor's Initials.	B.S.
Materials.	Electro steel
How made.	Forged
Heat treated.	
Dimensions.	According drawing Nr 1.200.130.1; 1.200.170.2/1
Weight.	5200+5200+3900+2950 kg = 17250 kgs.
Progress on Insp.	Roughly machined
Yield kg per sq.mm:	33,1-43,0-37,6-38,5-37,2-36,9-31,5
Ult. kg per sq.mm:	50,0-50,0-51,2-51,6-51,2-51,9-51,2
Elong. % on 100 mm gauge length(4-20,0mm):	31-32-30-28-30-30-27%
Reduc. of Area %	62,8-66,9-59,7-58,4-65,2-61,0-55,8%
Cold Bend.	180° satisfactory
Brinell.	149
Izod.	-
Final date.	4.9.1959.

These shafts have been examined in finished condition and found satisfactory.

004394-004404-0070

P. Valmet

Date of approval of chemical analysis, physical properties and heat treatment in the case of special steels for reduction gearing forgings.

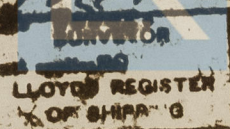
## Chemical analysis:

Order No.	Charge Nr	C	Mn	Si	P	S
	23422	.31%	.57%	.26%	.028%	.017%
	23469	.31	.57	.26	.028	.017
	23465	.30	.56	.25	.028	.017
	23445	.29	.54	.25	.028	.017

Fees:

Expenses:

Signature



Date 10.9.1959.