

Marine Design Appraisal Document

Lloyd's Register EMEA
London Design Support Services
Engineering Systems
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Quote this reference on all future communications
LDSS/ENG/RJP/O-77664

"FRAM", LR/IMO 5031925 FINNISH-SWEDISH ICE CLASSIFICATION STATUS

- The above mentioned ship was classed in December 1958 having been examined for compliance with the hull construction requirements of the relevant Rules and was assigned an ice class equivalent to:

Ice Class IC

Subject to the following:

Maximum draught amidships	3.6 metres	BOK
Max/Min draught AP	4.0/3.2 metres	BOK
Max/Min draught FP	3.2/2.3 metres	BOK

- The above mentioned ship has now been examined for compliance with the engine output requirements of the Finnish-Swedish Ice Class Rules 2002, which are equivalent to Lloyd's Register's current Rules.

Installed power	1477 kW
Power required by current Finnish-Swedish Rules for class IC	735 kW

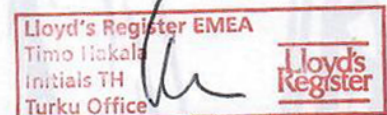
1481 kW *

- The above required power was computed on the basis of the following information:

Type of propeller	CP	Length between perpendiculars	29.27m
Number of propellers	1	Moulded Beam	8.81m
Bow, bulbous Y/N	No	Moulded Depth	4.86m
Rake at centreline (°)	29°	Displacement at maximum ice draught	563 tonnes

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* Corrected 23.4.2008

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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