



# Lloyd's Register of Shipping

Date 22.12.86

Office HAMBURG

Certificate No. HAM 601408

**This is to certify that** at the request of Messrs. Pesch - Messgeräte, Ortsring 2, 2090 Winsen, Germany the undersigned Surveyor did attend at their works on the 9th October, 1986, for the purpose of examining and testing one type of Suez Canal Searchlight, as stated built to the requirements as specified by the Directorate of Transit, Suez Canal Authority, Ismailia, their Circ. No. 432173 dated 10th November, 1983.

Suez Canal Searchlight type Pesch Suez 2000W/750 with following main particulars:

Barrel diameter : 750 mm  
Lamps : 2 x 2000 W Halogene  
Luminous Intensity: Better than  $3 \times 10^6$  (3 Million) Candela  
Mirror : Split type polished aluminium.

The examination and test of the searchlight is with following results:

1. Range of radiation/luminous intensity as measured by calibrated LUX-meter with an approximate atmospheric transmission factor  $T = 0.85$ :

7 m	67000	LUX
14 m	16600	"
28 m	4200	"
56 m	1056	"
112 m	262	"
224 m	65.6	"
448 m	16.4	"
896 m	4.1	"
1800 m	1.03	"

2. Mirror barrel and stand are of high corrosion-resisting material. The searchlight is operable both, horizontally and vertically.
3. The front glass is of hardened type and can stand rapid cooling.
4. The reflector is in two halves of polished aluminium of 95 % the reflective capacity of a glass mirror.

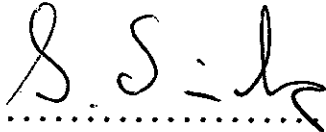
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5. The two halves of the reflector can be brought together (zero position) to make a single reflector light beam and can be parted to give two separate light beams each of 5 degrees at least on the horizontal level with adjustable dark sector from 0 to 10 degrees.
6. The searchlight is watertight (press. test 0.25 kp/cm<sup>2</sup>) and is provided with a vent-out of which a flexible hose can be fitted on the drum to dissipate the heated air out of the searchlight in addition to a safety vent.
7. The searchlight is equipped with a 2 lamps carrier, capable of being turned into focus for each lamp socket with automatic switch operation for current.
8. The electrical outfit of the searchlight is of high quality, satisfactory to the Society for its intended use.
9. Whilst the searchlight, when new, is considered to be reasonably vapour tight, it is expressly not safe for operation in a gas dangerous atmosphere, requiring an Ex(d) rating (explosion proof).

Conclusion:- The above type of searchlight, in the interpretation of the requirements of the Suez Canal Authority by the undersigned Surveyor, is considered to meet these requirements, is of good workmanship, and acceptable for its purpose



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G. Sieck

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