



Project: **Suez Canal Searchlight**
type Pesch Suez 3000W/750

Client: **SEEMATZ**
Pesch Marinescheinwerfer, Winsen

Office: **Hamburg**

Clients Order Number: --

Date: **05 August 2005**

Order Status: **Complete**

Inspection Dates

First: **18 July 2005**

Final: **26 July 2005**

This certificate is issued to **Messrs. Seematz Pesch Marinescheinwerfer, Ortsring 2, 21423 Winsen** to certify that the undersigned surveyor did attend at their works on the 26 July 2005, for the purpose of examining and testing one type of Suez Canal Searchlight, based on technical documentation.

Suez Canal Searchlight type Pesch Suez 3000W/750 with following main particulars:

Barrel diameter	:	750 mm
Lamps	:	2 x 3000W, Halogene
Luminous Intensity	:	Better than $3,5 \times 10^6$ (3,5 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	72090	LUX
14 m	18022	LUX
28 m	4506	LUX
56 m	1126	LUX
112 m	282.0	LUX
224 m	70.4	LUX
448 m	17.6	LUX
896 m	4.4	LUX
1800 m	1.1	LUX


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/cm²) 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 in 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.


K. Tapper
Surveyor to Lloyd's Register EMEA
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