



mt UNION SAPPHIRE

MAIN DATA

Length o.a.	33.00 m
Breadth o.a.	11.00 m
Max. draught	5.60 m
Gross-tonnage	497
Nett-tonnage	149

BOLLARD PULL

Ahead	65 t.
Astern	60 t.

NAVIGATION EQUIPMENT

All our tugs have the most modern navigational aids s.a. radar, echosounder, DGPS, compass, electronic charting, multiple VHF sets, ...

PROPULSION

Two 'ABC' type 8 MDZC 4-stroketrunk-type diesel engines totalling 3.700 kW at 1.000 rpm, driving two 'Schottel' type SRP1515FP full azimuth propellers in 'Kort' nozzles.

Propeller thrust and direction are bridge-controlled by means of two individual (PS/SB) control stations, with separate direction and rpm settings, resulting in fast and accurate manoeuvrability. The 'Kort' nozzles guarantee a high pull/power ratio.

DECK EQUIPMENT

Robust waterfall winch 'Brusselle' type SLH-130/50/2-1 with one warping head on aft deck. Brake holding: 130 t., dynamic: 44 t. at 10 m/min, slack rope speed: 50 m/min.

Combined towing/anchor winch 'Brusselle' type SLH-130.50/2-2-2 on forecastle deck with double

drum \varnothing 1.600 x 700 x 2 x 600 mm.

Brake holding: 130 t., dynamic: 44 t. at 10 m/min, slack rope speed: 50 m/min.

Both towing winches are remotecontrolled from the bridge.

For extreme safety, all our winches have an emergency stop and a 'letgo' button, that can even be operated in a total black-out situation.

AUXILIARIES

Each tug has two 'Scania DS 9 95M' (196 kW) diesel engines, driving 180 kVA alternators 3 x 380 V - 50 Hz.

One genset for harbour duties: 90 kVA. Hydraulic pumps for propulsion system are main engine driven.

All our tugs are fully equipped for salvage assistance s.a. external power supply, oxy-acetylene cutting and welding, salvage pumps, ...

ACCOMMODATION

3 single and 3 double cabins provide air-conditioned accommodation for 9 persons.