GENERAL
Yard number 513117
Delivery date January 2018
Basic functions Push-pull, towing, mooring and fire-fighting operations
Classification Bureau Veritas I-HULL MACH Escort Tug Unrestricted Navigation AUT UMS Fire Fighting Ship 1, CLEANSHIP, INWATERSURVEY
Flag St. Vincent Owner CTOW

DIMENSIONS
Length overall 29.10 m
Beam overall 13.23 m
Depth at sides 5.35 m
Draft aft 5.60 m
Displacement 833 t (98% consumables)

TANK CAPACITIES
Fuel oil 74.1 m$^3$
Fresh water 17.2 m$^3$
Sewage 16.8 m$^3$
Lubrication oil 4.5 m$^3$
Dirty oil 2.8 m$^3$
Hydraulic oil 0.38 m$^3$
Sludge 2.4 m$^3$
Bilge water 5.2 m$^3$
Foam 22.6 m$^3$
Dispersant 6.1 m$^3$

PERFORMANCES
Bollard pull ahead 81.2 t
Bollard pull astern 75.7 t
Speed ahead 14.1 kn
Speed astern 13.7 kn

PROPULSION SYSTEM
Main engines 2x Caterpillar 3516C TA HD/D
Total power 5050 kW (6772 bhp) at 1800 rpm
Thrusters 2x Rolls Royce US 255 P30 CP
Slipping clutches Rolls Royce ‘built in’ type
Propeller 2x 2800 mm
Forced ventilation 40,000 m$^3$/h

AUXILIARY EQUIPMENT
Generator sets 2x Caterpillar C7.1 TA, 230/400 V, 125 kVA, 50 Hz
General service pumps 2x Sterling AKAH 6101 each 34 m$^3$/h
Fuel pumps Sterling AHK 5101 and AOH 3101
Fuel oil purifier Westfalia OTC 3-02-137, 1740 l/h
Cooling system Box cooling + anti-growth system
Fresh water pressure set Sterling HKB 111 / AOH 3101 AA AFJ.2H.4
Hydraulic system Double main engine driven pumps
Seawage treatment plant Tecnicomar Econam 20
Oil pollution control Dispersant pumpset with 2 spraybooms
Fill set Diesel driven pumps 2400 m$^3$/h
Fill monitors 2x 1200 m$^3$/h, waterfoam

DECK LAYOUT
Anchor 2x 475.5 kg Pool (High Holding Power)
Anchor/towing winch Hydraulically driven two speed winch with double drum and warping head, pull 38 t at 11.4 m/min, slack rope speed 35 m/min, 200 ton brake
Capstan Electrically driven, 5 t at 15 m/min
Crane + winch Heila HLRM 65-2S, 13.80 ton at 4.67 m + hydraulically driven winch
Towing hook aft Mampaey, disc type 100 ton
Aft winch Hydraulically driven two speed single drum with spooling device, pull 38 t at 12 m/min and reduced pull at 38 m/min, 200 ton brake
Fendering D-fender at sides, cylindrical fender at transom corners, D-fender at stern, cylindrical bow fender and W-block fender with waterspray
Workboat 1x SOLAS approved 4.20 m workboat fitted with outboard engine

ACCOMMODATION
For 12 persons, insulated and finished with durable modern linings, acoustic ceiling in the wheelhouse, floating floors and air-conditioned. Captain’s cabin, chief engineer’s cabin, five double crew cabins, galley, mess/dayroom, switchboard room, dry store, changing room and sanitary facilities.

NAUTICAL AND COMMUNICATION EQUIPMENT
Searchlights 2x Xenon 450 W (FIFI 1)
Radar system 2x Furuno FAR-2117 with 19” LCD screen
Sea chart system Navi-Sailor NS4000 ECS
Speedlog Furuno DS-80
Magnetic compass Cassens & Plath, type Kotter
Satellite compass JRC JLR-21
Autopilot Simrad AP-70
GPS Furuno GP-170
Echosounder Furuno FE-800
VHF 2x Sailor Compact 6222, 25 W + 1x Sailor Compact 6248
VHF hand-held 2x Jotron Tron TR-20
VHF
SSB Furuno FS-1575
Inmarsat 2x Furuno Felcom 18
NAVTEX Furuno NX-700A
AIS Furuno FA-170
EPIRB Jotron Tron-60S
SART Jotron Trosar20
Anemometer Windsonic OMC 115

AZIMUTH STERN DRIVE TUG 2913
“CTOW AN SOFIE”
AZIMUTH Stern Drive Tug 2913

“CTOW AN Sofie”