



Tug "RUNO"

IMO no: 9724269
 Call sign: UBEP6
 MMSI: 273399790

BASIC FUNCTIONS

Towing, mooring, pushing, anchor handling, dredge support

CLASSIFICATION

RINA

C ~~X~~HULL •MACH Tug Unrestricted navigation, AUT-UMS, ICE Class IC

DIMENSIONS

LENGTH O.A.	33.73 m
BEAM MLD.	12.00 m
DEPTH AT SIDES	4.00 m
DRAUGHT AFT (FULL)	3.10 m
DRAUGHT AFT 50%	2.80 m
DISPLACEMENT LSW	545 ton
GROSS TONNAGE	467 rt

TANK CAPACITIES

FUEL OIL	220.0 m3
FRESH WATER	35.0 m3
SEWAGE	5.0 m3
SLUDGE	1.6 m3
DIRTY OIL	5.3 m3
LUBRICATION OIL	4.5 m3
HYDRAULIC OIL	2.4 m3
GEAR OIL	4.5 m3
BILGE WATER	5.0 m3

PERFORMANCES

BOLLARD PULL AHEAD.	51.0 ton(m)
SPEED	10.0 kn

PROPULSION SYSTEM

MAIN ENGINES	3x Caterpillar C32-TTA ACERT
TOTAL POWER	2910 bkW (3957 bhp) @ 1800 rpm
GEARBOXES	3x Reintjes WAF 873 / 7,07:1
PROPULSION	3x Promarin fixed pitch propeller
DIAMETER	3x 2250 mm in V.d. Giessen Optima nozzles
BOWTHRUSTER	350 bhp, hydraulically driven Kalkman Beta 350H

AUXILIARY EQUIPMENT

GENERATOR SETS	2x Caterpillar C6,6, with automatic parallel running
CAPACITY	2x 156 kVA, 50 Hz, 230/400VAC
TRANSFER PUMPS	For Fresh Water: SIHI, 32 m ³ /h @ 1.4 bar For Fuel Oil: SIHI 32 m ³ /h @ 1.4 bar
FUEL OIL SEPARATOR	Westfalia OTC-2
HYDRAULIC SET	Combined with center C32 main engine with Norgear gearbox 590kW @ 1800rpm The gearbox has two clutchable hydraulic pumps.

DECK LAY-OUT

ANCHOR	2x 450 kg Pool (HHP)
CHAIN	22 mm short-link anchor chain 247.5 m
ANCHOR WINCH	2x DMT hydraulic driven with 50m mooring rope drum
DECK CRANE	Heila HLRM 230 4SLK, 9,8Ton @ 16,5m.
ANCHOR HANDLING / TOWING WINCH ACC. TO REGULATIONS OF NOBLE DENTON	DMT Waterfall, towing pull 60 ton @ 6 m/min, slack 30m/min, Anchor handling pull 100ton @ 4 m/min, slack 20m/min, Wire capacity of both drums 2x 830m Ø 48mm, Drums 150 / 200 ton holding power
TOWING PINS	2x guide pin type WK hydraulics Bp 50 Ton
CHAIN STOPPER	1x WK hydraulics SWL 75Ton stroke 400mm
TUGGER WINCH	2x Dromec HPV-12000 12T @ 20m/min 1st lay.
ACCOMMODATION	Heated and air-conditioned living spaces for 11 persons, consisting of a captain's cabin, and four double crew cabins, and two single crew cabins, a galley and a mess and sanitary facilities. According to ILO2006 regulations. Also a cold and a dry store are facilitated as per G.A.P.

