

Designed to fit
TUG20



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Max output
2940-3245 bhp



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Bollard pull
36-40 t



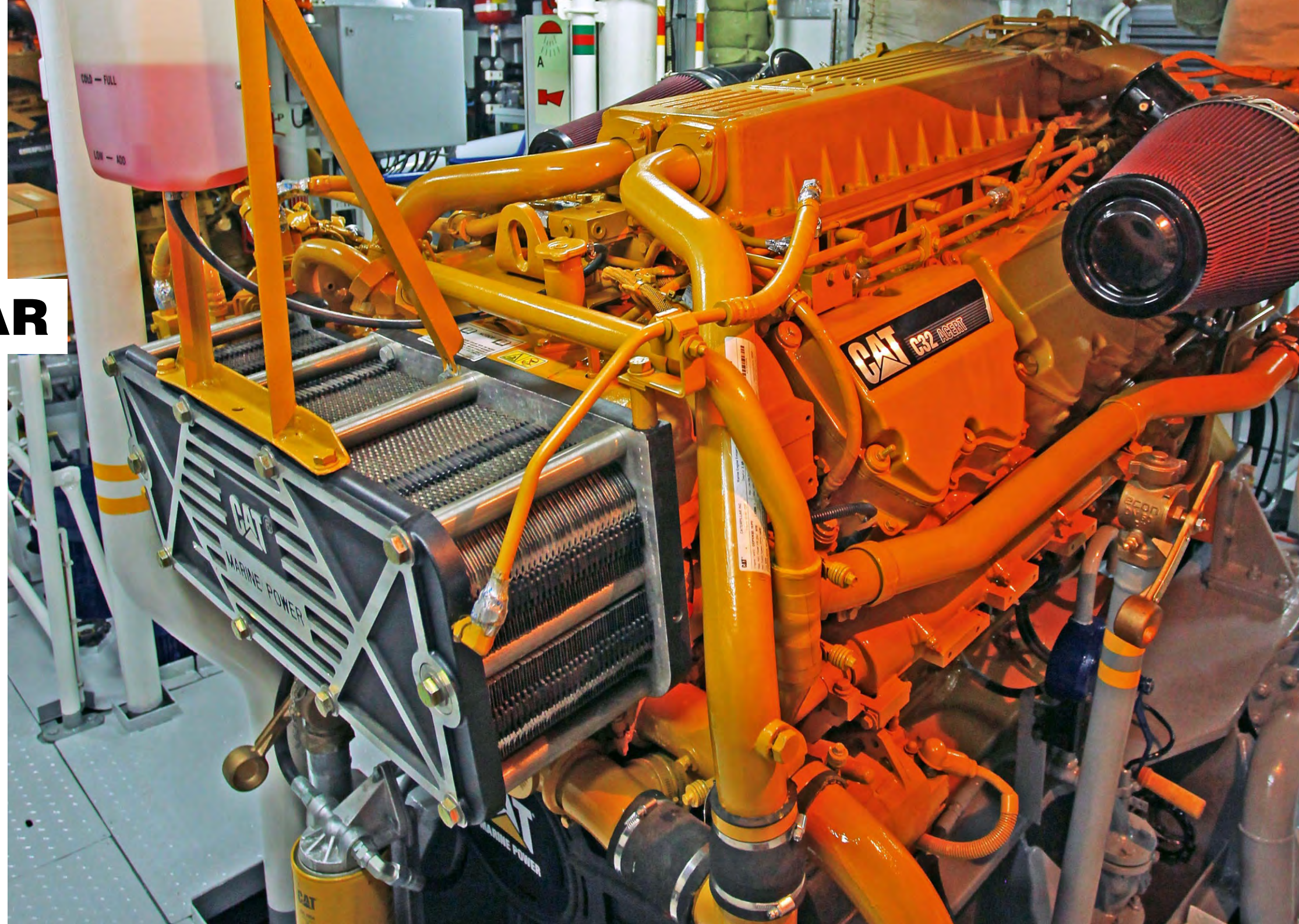
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Length **19.50 m**
Breadth **9.30 m**
Draft **3.63 m**



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Main engine
**2 x CATERPILLAR
C32**



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Speed
12.2 kn



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Propulsion
**2 x ROLLS-ROYCE
AZIMUTH THRUSTER
US 155 P14FP**



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Performance
**TOWING HOOK,
FORE TOWING WINCH
ROLLS-ROYCE,
150 m POLYETHYLENE ROPE,
DECK CRANE**



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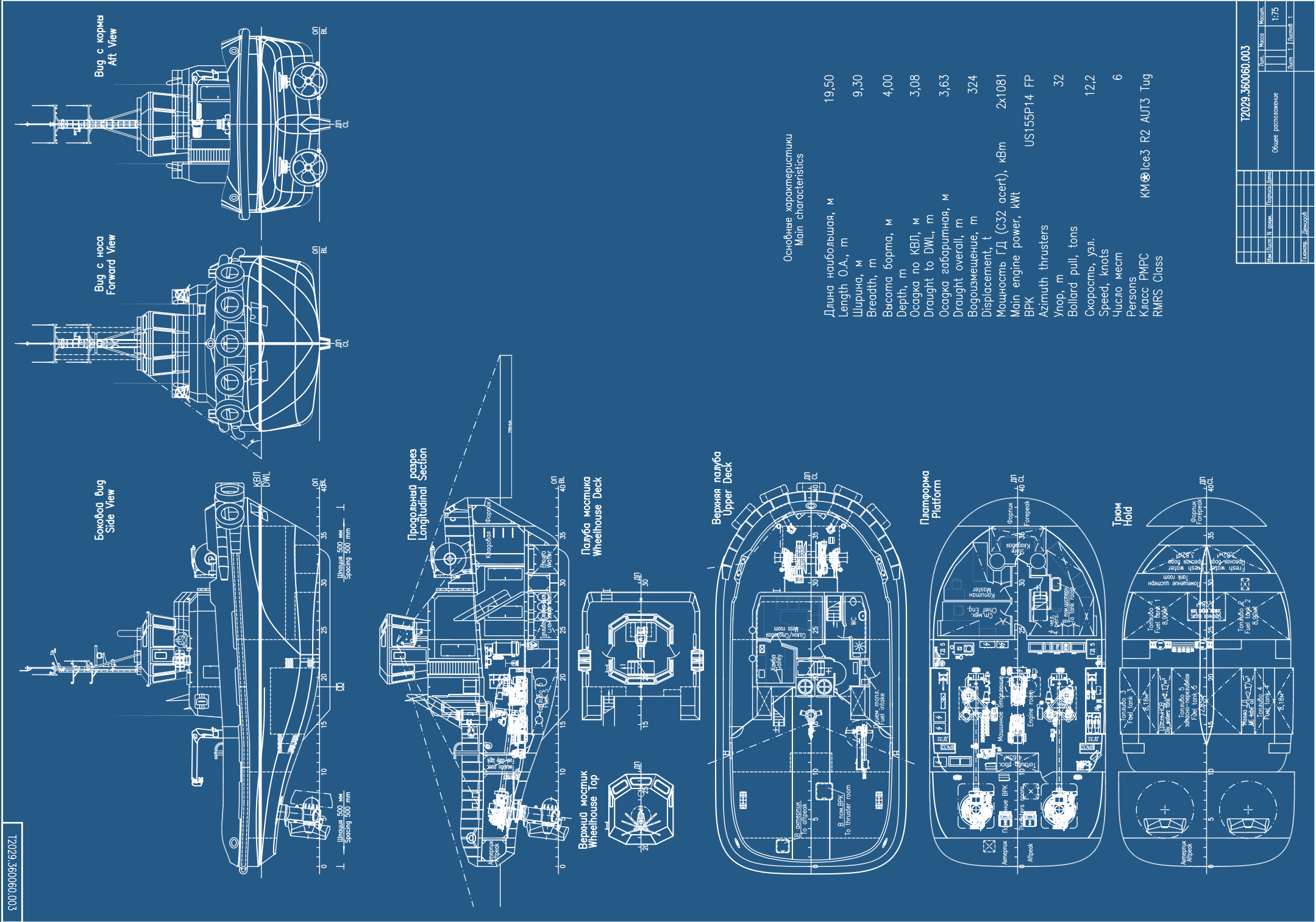
Radio Navigation area **A1+A2**



General particulars: Length at DWL: 17,69m
Length overall: 19m
Breadth overall: 9,3m
Loa - 19m
Depth: Draught at DWL: 3,06m
TdwL - 3,06m

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General arrangement plan



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TYPE: Tug

VESSEL CLASS: KM 

Ice3Ice2

 R2 AUT3 Tug

CLASSIFICATION SOCIETY: RMRS

ICE CLASS	ICE3	ICE2
TOTAL OUTPUT, BHP	2940	3245

BOLLARD PULL, T	36,0	40,0
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PARTICULARS

Length overall, m	19,50
Breadth, m	9,30
Depth, m	4,00
Draught, m	3,08
Draft with skeg, m	3,63
GRT, t	144,00
NRT, t	43,00
Deadweight, t	59,00
Displacement, t	324

PERFORMANCE

Total output, bhp	2940-3245
Bollard pull, t	36-40
Speed, kn	12,2
Radio Navigation area	A1+A2
Working temperature	from - 25 °C up to +45 °C

TANK CAPACITY

Fuel, t	41,2
Lube oil, t	1,90
Fresh water, t	7,65
Sewage, m³	3,8

ACCOMMODATIONS

Single cabin	2
Quadruple cabin	1

DECK MACHINERY (EQUIPMENT)

Fore Hydraulic towing winch	ROLLS-ROYCE AW22U2, with 150 m polyethylene rope
Anchor	AC-14, 225 kg x 2
Anchor chain	Steel 22 mm, grade 3, 137,5 x 2
Towing hook	MAMPAEY DCX 30/45
After capstan	EMC C 305 E2, 1,5 t
Deck crane	PALFINGER PK4501M 2,8 t / 1,8 m 0,36 t / 9,1 m

PROPULSION MACHINERY

Main Engine	2 x CATERPILLAR C32 1008-1193 kW
Propulsion system	2 x ROLLS-ROYCE AZIMUTH THRUSTER US 155 P14FP, Ø1800 mm with COMPOSITE TAIL SHAFT
Auxiliary Generator	2 x CATERPILLAR C 4.4 DITA (51,5 kW)

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NAVIGATIONAL EQUIPMENT AND CONTROL SYSTEMS

Radio stations	VHF SAILOR PT6222 x 2 MF FURUNO FS-1575
INMARSAT C	FURUNO FELCOM-18
EPIRB	TRON40S MKII
SART	TRON SART20
Two-way VHF radiotelephony	TRON TR20 GMDSS
AIS transponder	TRON UAIS TR-2500
NAVTEX	FURUNO NX-700B
GPS	FURUNO GP-33
Radar	FURUNO M-1934C-BB/C-MAP
Magnetic Compass	CASSENS&PLATH GMBH Reflecta 3
Public address system	PHONTECH SPA-1500
Command Intercom System	PHONTECH AS CIS -3000
Machinery alarm warning system and Tank and structures level control	DZA07, Boning Automationstechnologie



