

M/V Amarco Tiger

The survey vessel, M/V Amarco Tiger, is operated by Fugro Survey Private Limited of 35 Loyang Crescent, Singapore. The multi purpose survey vessel is permanently mobilised with state of the art EM122 & EM3002D multibeam and can be rapidly deployed to survey locations worldwide.

Instrumentation provided onboard the vessel consists of high resolution 2D digital seismic, sub-bottom profilers, multi beam and single beam echo sounders, side-scan sonars, USBL subsea positioning, marine magnetometer, vibro and gravity coring systems, along with comprehensive off-line processing, charting and reporting facilities. Fugro Starfix Positioning System provides state-of-the-art differential GPS positioning to the vessel survey activities; supported by in-house developed navigation packages. All survey acquisition, navigations, on-line and off-line processing, charting and reporting systems on-board the vessel are networked through industrial standard server computes providing seamless integration of all survey activities from data acquisition through final onboard results presentations.

The vessel can further be fitted with a Hugin 1000 AUV rated to 3000m operating depth.

Clients within the oil and gas industry, the cable sector and government agencies utilise the vessel to obtain high resolution data for permitting, planning, design activities and cable engineering within the offshore industry.

Fugro Survey operates in accordance with a Health, Safety and Environmental Management System which is integrated with its Quality Management System. Together these systems conform to all national and international legislation as well as industry guidelines, and provide mechanisms for integration with the company's management system. Fugro Survey is a member of the multi-national Fugro Group of companies with more than 14,000 employees stationed in over 50 countries. Clients can benefit from individual and collective experience of hundreds of survey professionals at Fugro Companies worldwide.

M/V Amarco Tiger complies to the following:

- Compliance with ISPS (International Ship & Port Facility Security) code and ISM
- Vessel life saving/ fire fighting appliances in compliance with SOLAS 74/78 and latest amendments
- Compliance with appropriate MARPOL requirements

Vessel Capabilities:

- Site Hazard Surveys
- High Resolution 2D Seismic
- Mineral Surveys
- Tow Route Surveys
- Cable Route Surveys
- Pipeline Route Surveys
- Pipeline Inspection Surveys
- Swathe Bathymetry Surveys (to full ocean depths)
- AUV Surveys to 3000m depth.
- ROV Inspection Surveys
- CPT and 6m Vibro Coring Surveys
- Shipwreck and Air Accident Searches





M/V Amarco Tiger

VESSEL DETAILS:

Owner

A.O.G Sdn Bhd

Ship Managers

Amarco Services Sdn Bhd

Type

Geophysical Survey Vessel

Port of Registration

Muara - Brunei

Classification

A1 DNV (utility)

IMO Number

7381647

Built

1975

Re-Furbished

2008

Tonnage

908 GT

273 NT

Length Overall

53.64m

Extreme Breadth

11.52m

Draught, Loaded

3.66m

Cruising Speed

8.5 knots

Main Engines

2 x Industrie Diesel CPP = 2,100 BHP

1,050 BHP each

Propulsion

2 Controllable pitch propellers

Bow Thruster

1 x 260 HP

Fuel Capacity

340m³

Fuel Consumption

5000 litres per 24 hours of survey

Water Capacity

290m³ fresh water

Water Making (install May 2011)

Reverse Osmosis 5T per day

Vessel Endurance

30 days

Electrical Power

2 of 220kVa

1 of 75kVa

2 of 220kVa

1 of 75kVa

Navigation Aids

Chart plotter Furuno GP1850WDF DGPS

Radar Furuno ARPA 2117 & 1932

Autopilot Anschutz NP60

GPS Saab R4

Echo Sounder Skipper ED165

Gyro Raytheon Anschutz STD22

Windspeed Lilly & Gilley Walker P296

Speed log Walker 4020

Communication Aids

GMDSS Sailor MF/HF 150W

2 x Sailor DSC RT5022

VHF Sailor RT1440

EPIRB, SART, SSAS, AIS

Fleet 77 Satellite comm. System

Phone/ Fax/ e-mail

2 x Inmarsat Sat C

1 x Inmarsat Mini M

Deck Machinery

Removed already

Accommodation

53 persons in total

Sick Bay

On the main deck next to Main Exit

1 single bunk

Air Conditioned

For tropical operations

Working Area

230m² back deck area

1 x 3m by 2m Processing room

1 x 2m by 2m Navigation room

1 x 4m by 2m Instrument room

Recreational Areas

Mess Room

VESSEL SAFETY EQUIPMENT:

Rescue/MOB Boat

Valiant Rigid Inflatable Boats

Model: RB-400 SOLAS

SN: PT-VALC1286L606

Life Rafts

Manufactured by: Youlong Rubber Product and Shanghai Star Rubber.

Type: KHA-25= 6 unit and

RAFT-A-25= 3 unit

Survival Suits

Exempted

Life Jackets

100% Following SOLAS Requirement



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Smoke Hoods

100%

Work Vest

Yes

Fire Pump

Detroit Diesel 7083-7399
SN:8VA39705

Foam System

N/A

SURVEY EQUIPMENT:

Satellite Positioning

Starfix G2 High Accuracy Positioning systems

On-Line Navigation System

Fugro Starfix.Seis real time positioning with QC facilities.

Off-Line Processing System

Fugro Starfix.Proc Software for positioning processing (single beam and swathe), digital terrain modelling and sonar mosaics production. Pentium PC's and Hewlett Packard Design jet plotters.

Heave, Pitch and Roll Sensor

F180+, DMS2-05.

Acoustic Positioning

Sonardyne USBL

Real Time Clock

GPS (1PPS)

Single Beam Echosounders

Odom EchoTrack., 24kHz and 200kHz

Multi Beam Echosounder

Reson 8101

Sound Velocity Probe

2 x Valeport

Side Scan Sonar

2 x GeoAcoustic Sonar
2 x Edgetech 4200MP

Sub-bottom Profiling

Hull mounted 4x4 transducer array
GeoAcoustics Surface-tow boomer

Mini Sleeve Gun

10 cu.in. sleeve air gun with wave shape kit

Hydrophone Streamer

Benthos model MESH 50/24P
Benthos model MESH 15/10P

Graphic Recorders

3 x Alden 9315 CTP Plotters

Data Logging and Processing

Starfix GLOG/GPLOT
Compaq storage unit

Swell Filter

Starfix GPLOT
Geoacoustics 5210A

TVG Amplifier

Starfix FEAM/GPLOT

Bandpass Filter/TVF Filter

Starfix FEAM/GPLOT

Marine Magnetometer

Seaspy overhauser type
Geometrics G880 (optional)

Record Annotator

Starfix GPLOT

Seabed Sampling

Free fall 450kg gravity corer: 2 and 3m barrel. Core diameter 83mm. Max 1500m cable length.
Grab sampler.
3m and 6m vibrocorer for maximum 150m Water depth.

Hi-res 2D Seismic System:

TTS 2+

No. of Channels

120

Sample Rate

0.25 – 4.00 ms

Filters

High Cut - Variable DSP
Low Cut - Variable DSP

Tape Format

SEG D

Recording Medium

3490/cartridge tape

Streamer

Geco Gx600 streamer 12.5m group length. 1x Digicourse 5010/ 5011 per 150m active

QC System

Pro Max, and
UniSeis

Online Display

GS 612 Plotter

Streamer Testing Unit

KALOMOS Test unit

Firing Control

SC2000 gun control unit

Channels Display

Oscilloscope
TTS SEIS screen

Far Field

Recorded on tape as well as displayed on camera

Depth Controllers

Digicourse model 5010 and 5011

Source

Up to 160cu. in. Sleeve Gun
4 x 20 cu. in. array or
2 x 40 and 2 x 20 cu.in. array or
4 x 40 cu. in. array

Compressor

2x Price Compressors
Delivery each compressor 200 SCFM
Pressure 138 bar

Camera

OYO GS-624 plotter

Near Trace Analogue Recording

Waverly 3710

Charting

AutoCAD
Hewlett Packard A0 Design Jet plotters

Network

6TB server – survey, Processing, Bridge, cabins networked

Hugin 1000 AUV:

3000m depth capability fitted with

- EM2000 MBES,
- 105/ 410kHz Side Scan Sonar,
- 2 – 16kHz Full spectrum Sub bottom Profiler

AUV is permanently fitted inside its launch and recovery container (LARS).

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