



SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

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For more detailed technical data sheets mail us on ram@synergyequipment.com

CONTAINERIZED DIVE SUPPORT MACHINERY CONTROL UNIT SY-MC-CUSTOM-6



CONTAINERIZED DIVE SUPPORT MACHINERY CONTROL UNIT SY-MC-CUSTOM-6



HIGH PRESSURE COMPRESSOR BAUER SY-MARINER 320E



TWIN HYDRAULIC POWER PACK



DIVER BREATHING AIR QUAD SY-DBA



CHANGE OVER SWITCH





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CERTIFICATES PROVIDED WITH EACH MACHINERY CONTAINER

Container	Dnv offshore container certs / Iso container certs
Lifting Slings	Dnv or BV certified slings
Class	Bureau Veritas pressure test witness for entire system
Bauer compressor	Function /pressure/air purity test
Hp cylinder quad	Hydrotest
Gas Management Panel	Bureau Veritas pressure test witness
Imca	D018 / D023
Fmea	As built by Synergy
Fmea stamped by class	As built by Synergy and reviewed by Class (optional)
Warranty	One year Synergy manufacturing warranty

Industry & Facilities Division
Third Party Inspection Report
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INSPECTION REPORT: 03 Revision Nr-0

Initial Interim Final Resident

Inspection requested by: Synergy Diving Equipment Solutions FZC

Inspection performed by: Bureau Veritas

Inspection performed on: 05.10.2017

Project: Third Party Inspection Service

BV Client: Synergy Diving Equipment Solutions FZC

Manufacturer/Vendor: Synergy Diving Equipment Solutions FZC

Inspection Location: Synergy Diving Equipment Solutions FZC (Division label workshop)

Inspection performed on: 05.10.2017

(Visual, Dimension, Marking) MATERIAL / SUBJECT OF INSPECTION

Witness Present: Test of HP & LP Compressor & Management Panel (Cylinder air bank & distribution panel to the working pressure)

A - INSPECTION RESULT

Satisfactory (Without comments) Satisfactory with comments (Any of testing Branch or Non Conformity items is still open) Not Satisfactory (NCI raised during the inspection)

Inspection Summary: 1. Witness Pneumatic Test of HP & LP Compressor & Management Panel. Cylinder air bank & distribution panel to the working pressure & found satisfactory.

Open Punch List Items: Yes, details in section D No

Release Note Issued: Yes, number(s) No

BP Stamping: Yes No

On behalf of Bureau Veritas
BV Inspector: Debasis Mandal

On behalf of Synergy Diving Equipment Solutions FZC
BV Coordinator: Alireza Pato

BV Office: Dubai

Inspection Report Date: 05.10.2017

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Distribution: CLIENT BV MANUFACTURER OTHER

Attachments Report: Yes, details in section J No

B - REFERENCE DOCUMENTATION:

Title	Reference n°	Rev.	Approval status	Approved by	Date
Diving Equipment System Inspection Guidelines	IMCA D023			Synergy	

C - ATTENDEES

Name	Position	Representing
Debasis Mandal	Inspector	Bureau Veritas
Mr. Manager	Director	Synergy
Body Legend	Technical Manager	Synergy

D - MEASURING & TESTING EQUIPMENT USED

Equipment Type	Equipment Identity n°	Expiry Date
Pressure Gauge	544-65	17.08.2017

E - INSPECTION DETAILS

Description of the inspections carried out:

- Visual inspection HP & LP Compressor & Management Panel, Cylinder air bank & distribution panel and found satisfactory.
- Witness Inspection HP & LP Compressor & Management Panel, Cylinder air bank & distribution panel as per Annexure-1 & found satisfactory.
- Characterization of Compressor motor found satisfactory as well as the safety of operation as per Annexure-1.
- Verify calibration certificate of measuring instrument and found satisfactory.

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F - DIGITAL PICTURES

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J - ATTACHMENTS

Item	Attachment Name	Total Pages	Description

Annexure-1

Inspection Details

- BV has been witnessed Pneumatic working pressure test of HP & LP compressor, Distribution Panel with the following Details.

MACHINERY CONTAINER SERIAL NUMBER: 5533753

PRESSURE TEST OF HP COMPRESSOR:

MANUFACTURER:	BAUER KOMPRESSOREN
MODEL:	PE350-VE-F03
SERIAL NO.:	17-16 1899
MAX. WORKING PRESSURE:	200 BAR

PRESSURE TEST OF LP COMPRESSOR:

MANUFACTURER:	BAUER KOMPRESSOREN
MODEL:	PE350-VE-F03
SERIAL NO.:	17-16 1700
MAX. WORKING PRESSURE:	200 BAR

PRESSURE TEST OF LP COMPRESSOR:

MANUFACTURER:	QUINCY COMPRESSOR
MODEL:	BM 31205B
SERIAL NO.:	UTZ 201503
VOLUME TANK SERIAL NO.:	376288 and 376285
MAX. WORKING PRESSURE:	200 PSI

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PRESSURE TEST OF MANAGEMENT PANEL:

MANUFACTURER:	SYNERGY DIVING AND EQUIPMENT SOLUTION FZC
SERIAL NO.:	POSEIDON 001
MAX. WORKING PRESSURE (LP):	250 PSI
MAX. WORKING PRESSURE (HP):	3000 PSI

PRESSURE TEST OF DISTRIBUTION PANEL:

MANUFACTURER:	SYNERGY DIVING AND EQUIPMENT SOLUTION FZC
SERIAL NO.:	POSEIDON 002
MAX. WORKING PRESSURE (LP):	250 PSI
MAX. WORKING PRESSURE (HP):	3000 PSI

PRESSURE TEST OF 12 X 50 LBS CYLINDER AIR BANK:

MANUFACTURER:	SYNERGY DIVING AND EQUIPMENT SOLUTION FZC
SERIAL NO.:	BA BACK NO. 099
MAX. WORKING PRESSURE:	3000 PSI

PRESSURE TEST OF 12 X 50 LBS CYLINDER AIR BANK:

MANUFACTURER:	SYNERGY DIVING AND EQUIPMENT SOLUTION FZC
SERIAL NO.:	BA BACK NO. 100
MAX. WORKING PRESSURE:	3000 PSI

- ALL PIPEWORKS AND VALVES OF THE MACHINERY CONTAINER HAVE BEEN TESTED TO MAXIMUM WORKING PRESSURE (LPH/HP) FOR 30 MINUTES. NO LEAKS FOUND.

END OF REPORT

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ORDERING INFORMATION

s/l	Part Number	Description
1	SY-MC-DNV-01-CUSTOM-6	DNV OFFSHORE MACHINERY CONTAINER WITHOUT INSULATION 2 X HP COMPRESSOR, 28 X CYLINDER DIVER BREATHING AIR QUAD, TWIN TYPE HYDRAULIC POWER PACK, CHANGE OVER SWITCH 12 X CYLINDER MEDICAL OXYGEN QUAD (RECESSED FROM OUTSIDE INTO THE CONTAINER)
2	SY-MC-DNV-02-CUSTOM-6	DNV OFFSHORE MACHINERY CONTAINER WITH INSULATION & AC 2 X HP COMPRESSOR, 12 X CYLINDER DIVER BREATHING AIR QUAD, TWIN TYPE HYDRAULIC POWER PACK, CHANGE OVER SWITCH, 12 X CYLINDER MEDICAL, CABIN FOR TECHNICIAN OXYGEN QUAD (RECESSED FROM OUTSIDE CONTAINER)

s/l	Part Number	Description
1	SY-MC-ISO-01-CUSTOM-3	ISO OFFSHORE MACHINERY CONTAINER WITHOUT INSULATION 1 X HP COMPRESSOR, 12 X CYLINDER DIVER BREATHING AIR QUAD, 12 X CYLINDER CHAMBER AIR QUAD, 12 X CYLINDER MEDICAL OXYGEN QUAD (RECESSED FROM OUTSIDE INTO THE CONTAINER)
2	SY-MC-ISO-02-CUSTOM-3	ISO OFFSHORE MACHINERY CONTAINER WITH INSULATION & AC 1 X HP COMPRESSOR, 12 X CYLINDER DIVER BREATHING AIR QUAD, 12 X CYLINDER CHAMBER AIR QUAD, 12 X CYLINDER MEDICAL OXYGEN QUAD (RECESSED FROM OUTSIDE INTO THE CONTAINER)

BESPOKE DESIGNS – ANY CONFIGURATION AS PER CLIENT REQUIREMENT

SYNERGY INFRASTRUCTURE





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For more detailed technical data sheets mail us on ram@synergiequipment.com

