



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **P-13841**

This is to certify that the
Pressure Vessel

with type designation(s)
CAPV 320 bar (300 – 2250L)

Manufactured by
Umoe Advanced Composites AS
Mandal, Norway

is found to comply with
Det Norske Veritas' Offshore Standard DNV-OS-C501, Composite Components, October 2011
Rules for Classification of Ships Pt.5 Ch.15, CNG Carriers, Scantlings and Testing of Composite Type Cargo Tanks, 2011
Standard for Certification 2.22 Lifting Appliances, 2008

Application

May be used as a general purpose pressure vessel, in accordance with application limitations.

Max. working temp.: -40 to +55°C
Design pressure: 320 bar
Operating Medium compressed clean air (no oil) or nitrogen

Høvik, 2011-07-07
for Det Norske Veritas AS



This Certificate is valid until
2015-12-31

Per Esvall
Head of Section

DNV local office:
Kristiansand S

Ulf-Gunnar Mikalsen
Surveyor

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.