Certificate No:
TAS000031M

TYPE APPROVAL CERTIFICATE

This is to certify:

That the ISO Freight Container

with type designation(s)
20ft CSC/ISO tank container - VFL-20SN001

Issued to
Vasant fabricators Private Limited
Chhapi, Gujarat, India

is found to comply with
International Convention for Safe Containers, 1972 (CSC)
ISO 1496, Part 3: Tank Containers for Liquids, Gases and Pressurized Dry Bulk
DNV 2.7-4 Freight Containers

Application :

Tank container for non-dangerous liquids with partial compliance to ISO 1496-3 (see Application/Limitation)

Max. gross mass (kg)	**30480**
Max. payload (kg)	**27080**
Net. cubic cap. (m^3)	**N/A**
Stacking cap. (kg)	**152400**

Issued at **Høvik** on **2021-05-07**
This Certificate is valid until **2026-05-06**.
DNV local station: **Mumbai**

Approval Engineer: **Igor Antonijevic**

for **DNV**

Zeinab Sharifi
Head of Section

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

20’ ISO/CSC tank container

CSC Approval reference number	N-NV/628/05/21
ISO designation	1CC
Size code / Type code	22 / KA
Max. external dimensions (LxWxH)	6058 x 2438 x 2591 mm
Tank capacity	15500 l
Stacking test load per corner	68580 kg
Transverse Racking test load value	75 kN
Tank design pressure	0.42 bar
Tank M.A.W.P.	0.20 bar
Tare mass[1)]	3400 kg

[1)] tare mass is to be confirmed by weighing. The sum of the tare mass and the payload shall never exceed the Max. gross mass as it is stated on the front page of this certificate.

Application/Limitation

This tank container is not approved for transport of any dangerous goods and in general does not comply with requirements in the IMDG Code for portable tanks. As long as the tank is used only for storage of dangerous goods (e.g. diesel fuel) IMDG is not applicable, but the tank must be emptied and cleaned before putting in transport. This must be included in each product certificate.

Dynamic longitudinal impact test has not been performed therefore the design does not fully comply with test requirements in ISO 1496-3. In addition, stacking and racking load values are reduced.

Production tests to be carried out as required by DNV surveyor.

DNV surveyor has to witness important production and test events and issue Form no. CTC301 "Freight Container Certificate" for all containers.

Type Approval documentation

Tests carried out

Prototype VFL TLC210001 strength tested according to requirements.

Marking of product

Each container to be marked with:

- Data Plate according to CSC requirement including Allowable stacking load for 1.8g of 152400 kg and Allowable transverse racking force of 75 kN.
- External marking according to DNV / ISO 6346 requirements
- DNV decal for freight containers
- NV mark to be hard stamped on frame

Periodical assessment

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out according to DNVGL-SE-0284 at 2 and 3.5 year intervals. Periodical assessments will, when possible, be harmonized with other surveys and audits carried out.

END OF CERTIFICATE