

Instructions for ocean carriage of AFV

Version 1.1

Requirements for New AFV units

The shipper/ OEM is required to categorize each AFV unit into one of the following categories:

BEV

Battery Electric Vehicle where only source of power for propulsion is a battery

HEV

Hybrid Electrical Vehicle, all none-plug-in Li-battery solution with ICE Engine

PHEV

Plug-in Electric Vehicle where source of power for propulsion is either through battery power or through an internal combustion engine (ICE)

CGV

CGV Compressed Gas Vehicles, where here the source of power for propulsion is gas, such as hydrogen, natural gas (LNG), petroleum gas (LPG) and any hybrid solutions with Li-battery.

State of Charge requirements (SOC level) for New or used units:

Type of Vehicle	Max. SOC	Min. SOC	Recommendation
BEV (Fully battery-operated vehicle and H&H)	50%	10%	30%
PHEV (Plug-in-hybrid vehicles)	50%	1%	Low

- Compliance with SOC requirements is always mandatory.
- No additional requirements for new BEV, HEV or PHEV units.
- Vehicles with damaged or defective Lithium batteries are **NOT** accepted for loading.

Vehicles fueled by CGV

Information required from the Shipper / OEM for shipment of the concerned CGV, LNG or LPG model and any Hybrid solutions with Li-battery.

:

1. Size (liters) and number of gas tank(s)
2. Filling degree in the gas tank(s) in percentage (%) of max filling capacity
3. WalWil permits up to 25% filling, with a maximum of 450L, for tanks of 1800L capacity or more

Requirements for Used AFV units

Version 1.1

General customer instruction for shipping of used AFV (cars, trucks and H&H)

PHEV / HEV

1. An On-board diagnostics (OBD) report from the Vehicle Onboard computer must be included by the customer. The OBD report is to show the following systems in the car/vehicle has no errors or issues:
 - High voltage battery system for propulsion of the car/vehicle
 - The electric wiring system in the car/vehicle

The OBD report has to be available for the shipping line in advance of loading at POL. We accept this OBD report from any authorized workshop.

2. Pictures showing the unit front and back and sides to view any impact damages and overall standard of the unit.

BEV: Loading of used BEV is **NOT** accepted onboard Wa/Wil Vessel until further notice.

CGV: The shipper must confirm that the gas-filling volume is below 25% of the tank capacity. Complete a leak-tightness check and confirm transport readiness. Each vehicle should be marked accordingly, and the crew needs to verify these markings during loading.

 Please observe:

- In case of any aftermarket battery installations exists on a used unit, we cannot accept the cargo for shipment
- In the event of damage to an AFV the cargo quality will evaluate the information before acceptance

*Regional Cargo Quality must verify and approve OBD reports and pictures, unless assigned to the port responsible.
They have the final say on whether units meet exceptions and can be loaded.*

Definition of New and Used Vehicles

New Vehicle

1. A vehicle that has never been owned and registered except by an OEM or their distribution partners.
2. has not been driven more than 500 Kilometers. (*)
3. is not more than 1 year old from production date.

Exceptions:

- OEM promotion/exhibition unit.
Vehicles used for test purposes has to be judge case by case to be allowed for shipment
 - OEM Overseas Delivery Programs. (*)
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Used Vehicle

Any vehicle other than a new vehicle as defined above.

(*)

Any PHEV or HEV units with milage between 500 and 1500 km must fulfil point 1 and 2 as well from slide 2 to be considered New unit.

Any vehicle with more than 1500 km on the odometer is considered a Used unit.