



## EQUIPMENT DATASHEET

HT ENERGY JOINT STOCK COMPANY

Add: No 225/1A, Le Quang Dinh Street, Thang Nhat Ward, Vung Tau City, Viet Nam

Tel : (+84) 254 361 62 63/ Fax: (+84) 254 361 62 64

# LIQUID NITROGEN TANK DATASHEET

|                        |                                    |
|------------------------|------------------------------------|
| <b>Name Equipment:</b> | <b>LIQUID NITROGEN TANK</b>        |
| <b>Code (ID):</b>      | <b>AJ- 4609, AJ-4610, NIT-0073</b> |
| <b>Document No:</b>    | <b>HT-DT-TK-0001</b>               |





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**RAPPORT D'INSPECTION**  
INSPECTION REPORT



**CITERNE MOBILE / CONTENEUR CITERNE / CAISSE MOBILE**  
PORTABLE TANK / TANK CONTAINER / SWAP BODY

IMMATRICULATION UNIT

**AJ 4609**



Nature / Scope : **5 ans / 5 years**

Rapport n° / Report n°: **MAL0920/14**

Rev **1**

This report supersedes the report issued with a previous revision

|   |  |   |   |  |                   |   |                         |
|---|--|---|---|--|-------------------|---|-------------------------|
| Propriétaire<br>Owner   |  | Air Liquide Offshore S.A  |   | Lieu d'intervention<br>Place of intervention   |                   | Cryogenic Tank Services (M) Sdn Bhd   |                         |
| MATIERES<br>AUTORISEES<br>AU TRANSPORT  | <input checked="" type="checkbox"/>                                    | Citerne mobile UN<br>UN Portable tank                                   |   | Instruction de transport :<br>Transport instruction  | <b>T75</b>        | Dispositions spéciales :<br>(equipment)<br>Tank provisions<br>(equipment)             |                         |
|   | <input type="checkbox"/>   | Citerne mobile OMI<br>IMO Portable tank                                 |   |  |                   |   |                         |
| SUBSTANCES<br>SUITABLE FOR<br>TRANSPORT   | <input type="checkbox"/>   | Conteneur citerne<br>ou Caisse mobile<br>Tank container<br>or Swap-body |   | Code :<br>Code   |                   | Dispositions spéciales :<br>(equipment)<br>Special provisions<br>(items of equipment) |                         |
|   | <input type="checkbox"/>   |   | Si citerne dédiée<br>If dedicated tank      | →  | N° ONU :<br>UN n° | 1977  |                         |
| <b>CARACTERISTIQUES / CHARACTERISTICS</b>   |  |   |   | <b>DATES D'INSPECTION / INSPECTION DATES</b>   |                   |   |                         |
| Constructeur<br>Manufacturer  | Cryo Diffusion   |   |   | Inspection initiale (année)<br>Initial inspection (year)   | 2011              |   |                         |
| Pays<br>Country   | France   |   |   | Demier contrôle<br>Last inspection   | Type<br>Date      | Initial / Initial<br>10-2011  |                         |
| Code ISO 6346<br>ISO 6346 code  | 10feet(2991X2438X2591) mm  |   |   | Prochain contrôle<br>Next inspection   | Date<br>Date      | 05-2017   |                         |
| Masse brute maxi<br>Gross mass  | 11,160   | kg  |   | Validité CSC<br>CSC validity   | Date<br>Date      | 05-2017   | ACEP n°: 0              |
| Tare<br>Tare  | 5,000  | kg  |   |  |                   |   |                         |
| <b>CITERNE / TANK</b>   |  |   |   | <b>CONTROLES EFFECTUES / INSPECTIONS PERFORMED</b>   |                   |   | Résultats / Results (*) |
| N° série<br>Serial n°   | AJ 4609  |   |   | Examen intérieur<br>Internal inspection  |                   |   | NA                      |
| Matériau<br>Material  | UNS S 30400  |   |   | Examen extérieur<br>External inspection  |                   |   | S                       |
| Nombre de compartiments<br>Number of compartments   | 1  |   |   | Mesure d'épaisseur<br>Thickness measurements   |                   |   | NA                      |
| Capacité<br>Capacity  | 8,168  | litres<br>liters  |   | Epreuve hydraulique<br>Hydraulic pressure test   | Date<br>Date      | 24-11-14  | S                       |
| Pression Maximale de Service<br>Maximum Working Pressure  | 5  | bar<br>bar  |   | Epreuve d'étanchéité<br>Leakproofness test   | Date<br>Date      | 24-11-14  | S                       |
| Pression d'épreuve hydraulique<br>Hydraulic test pressure   | 9.1  | bar<br>bar  |   | Mesure du vide<br>Vacuum measurement   |                   |   | S                       |
| Temp mini / maxi de calcul (°C)<br>Minimum / Design temperature   | +20/-196   |   | °C<br>°C                                    | Epreuve du dispositif de réchauffage<br>Heating device pressure test   |                   |   | NA                      |
| Revêtement interne / Internal coating :<br><input type="checkbox"/> Isolation par calorifuge / Thermal insulation<br><input type="checkbox"/> Ecran pare soleil / Sun shield<br><input checked="" type="checkbox"/> Double enveloppe sous-vide / Vacuum double envelope | Matériau / Material UNS S 30400  |   |   | Vérification des équipements de service<br>Checking of service equipment   |                   |   | S                       |
|   |  |   |   | Examen de la structure<br>Frame inspection   |                   |   | S                       |
|   |  |   |   | Examen du marquage<br>Marking inspection   |                   |   | S                       |
| <input checked="" type="checkbox"/> IMDG (DIV411)   | GB/IMO/LR 62129  | <input checked="" type="checkbox"/> CSC GB-LR 62129 10/10               | <input checked="" type="checkbox"/> TC      | (*) NA : Non Applicable - S : Satisfaisant - NS : Non satisfaisant<br>NA : Not Applicable - S : Satisfactory - NS : Not Satisfactory |                   |   |                         |
| <input checked="" type="checkbox"/> ADR / RID   | GB/PT/LR 62129   | <input type="checkbox"/> US-DOT / CFR49 (IA-8106)                       |   |  |                   |   |                         |
| DISPOSITIFS DE<br>DECOMPRESSION<br>RELIEF DEVICES   | <input checked="" type="checkbox"/> Soupape de sécurité / Safety valve | 3   | REGO&HEROSE SINO:37433 & 01093851, 01093847 | Tarage<br>Settings   | -                 | +   | 1.9&5 bar<br>°C         |
|   | <input type="checkbox"/> Disque de rupture / Burst. disc               | Nombre<br>Number  | Fab / n° série<br>Manuf / serial n°         |  | -                 | +   | bar                     |
|   | <input type="checkbox"/> Fusible / Fusible element                     |   |   |  |                   |   | °C                      |
| OBSERVATIONS<br>REMARKS   | VACUUM MEASURED AT 7 MICRONS   |   |   |  |                   |   |                         |
| Inspecté par<br>Inspected by  | Zainorsham Bin Adnan   |   | Centre<br>Center                            | Singapore  |                   | Signature & Cachet / Visa & Stamp   |                         |
|   |  |   | Date<br>Date                                | 25-11-14   |                   |   |                         |



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**RAPPORT D'INSPECTION**  
INSPECTION REPORT



**CITERNE MOBILE / CONTENEUR CITERNE / CAISSE MOBILE**  
PORTABLE TANK / TANK CONTAINER / SWAP BODY

IMMATRICULATION  
UNIT

**AJ 4610**



Nature / Scope : 5 ans / 5 years

Rapport n°/Report n°: MAL0198/15

Rev 0

|   |                                     |   |  |  |                   |  |  |
|---|-------------------------------------|---|--|--|-------------------|--|--|
| Propriétaire<br>Owner   |                                     | Air Liquide Offshore S.A  |  | Lieu d'intervention<br>Place of intervention   |                   | Cryogenic Tank Services (M) Sdn Bhd  |  |
| MATIERES<br>AUTORISEES<br>AU TRANSPORT                          | <input checked="" type="checkbox"/> | Citerne mobile UN<br>UN Portable tank                                   |  | Instruction de transport :<br>Transport instruction  | T75               | Dispositions spéciales:<br>(equipment)<br>Tank provisions<br>(equipment)             |  |
|   | <input type="checkbox"/>            | Citerne mobile OMI<br>IMO Portable tank                                 |  |  |                   |  |  |
| SUBSTANCES<br>SUITABLE FOR<br>TRANSPORT                         | <input type="checkbox"/>            | Conteneur citerne<br>ou Caisse mobile<br>Tank container<br>or Swap-body |  | Code :   |                   | Dispositions spéciales:<br>(equipment)<br>Special provisions<br>(items of equipment) |  |
|   |                                     | <input type="checkbox"/>  | Si citerne dédiée<br>If dedicated tank |  | N° ONU :<br>UN n° | UN 1977  |  |
| <b>CHARACTERISTIQUES / CHARACTERISTICS</b>                      |                                     |   |  | <b>DATES D'INSPECTION / INSPECTION DATES</b>   |                   |  |  |
| Constructeur<br>Manufacturer                                    |                                     | Cryo Diffusion Lery   |  | Inspection initiale (année)<br>Initial inspection (year)   |                   | 2012   |  |
| Pays<br>Country   |                                     | France  |  | Dernier contrôle<br>Last inspection  |                   | Type<br>Date   |  |
| Code ISO 6346<br>ISO 6346 code                                  |                                     | 10 Feet (2991x2438x2591)mm  |  | Prochain contrôle<br>Next inspection   |                   | Date<br>Date   |  |
| Masse brute maxi<br>Gross mass                                  |                                     | 11,160 kg   |  | Validité CSC<br>CSC validity   |                   | Date<br>Date   |  |
| Tare<br>Tare  |                                     | 5,000 kg  |  | 09-2017  |                   | ACEP n°: NA  |  |
| <b>CITERNE / TANK</b>   |                                     |   |  | <b>CONTROLES EFFECTUES / INSPECTIONS PERFORMED</b>   |                   |  |  |
| N° série<br>Serial n°   |                                     | AJ 5224   |  | Examen intérieur<br>Internal inspection  |                   | NA   |  |
| Matériau<br>Material  |                                     | INNER UNS S 30400   |  | Examen extérieur<br>External inspection  |                   | S  |  |
| Nombre de compartiments<br>Number of compartments               |                                     | 1   |  | Mesure d'épaisseur<br>Thickness measurements   |                   | NA   |  |
| Capacité<br>Capacity  |                                     | 8,100 litres  |  | Epreuve hydraulique<br>Hydraulic pressure test   |                   | Date<br>Date   |  |
| Pression Maximale de Service<br>Maximum Working Pressure        |                                     | 5 bar   |  | Epreuve d'étanchéité<br>Leakproofness test   |                   | Date<br>Date   |  |
| Pression d'épreuve hydraulique<br>Hydraulic test pressure       |                                     | 9.1 bar   |  | Mesure du vide<br>Vacuum measurement   |                   | S  |  |
| Temp mini / maxi de calcul (°C)<br>Minimum / Design temperature |                                     | +20/-196 °C   |  | Epreuve du dispositif de réchauffage<br>Heating device pressure test   |                   | NA   |  |
| Revêtement interne / Internal coating:                          |                                     | <input type="checkbox"/>  |  | Vérification des équipements de service<br>Checking of service equipment   |                   | S  |  |
| <input type="radio"/>   |                                     | Isolation par calorifuge / Thermal insulation                           |  | Examen de la structure<br>Frame inspection   |                   | S  |  |
| <input type="radio"/>   |                                     | Ecran pare soleil / Sun shield  |  | Examen du marquage<br>Marking inspection   |                   | S  |  |
| <input checked="" type="radio"/>                                |                                     | Double enveloppe sous-vide / Vacuum double envelope                     |  |  |                   |  |  |
| Matériau / Material   |                                     | INNER UNS S 30400   |  |  |                   |  |  |
| <input checked="" type="checkbox"/>                             |                                     | IMDG (DIV411) GB/IMO/LR 62129   |  | <input checked="" type="checkbox"/>  |                   | CSC GB-LR 62129 10/10  |  |
| <input checked="" type="checkbox"/>                             |                                     | ADR / RID GB/PTLR 62129   |  | <input checked="" type="checkbox"/>  |                   | US-DOT / CFR49 (IA-8106)   |  |
| <input checked="" type="checkbox"/>                             |                                     | TC  |  | (*) NA : Non Applicable - S : Satisfaisant - NS : Non satisfaisant<br>NA : Not Applicable - S : Satisfactory - NS : Not Satisfactory |                   |  |  |
| DISPOSITIFS DE<br>DECOMPRESSION<br>RELIEF DEVICES               |                                     | <input checked="" type="checkbox"/>                                     |  | HEROSE SINO: 36518 & 01093854, 01093844  |                   | - + 1.985 bar  |  |
| <input type="checkbox"/>  |                                     | Soupape de sécurité / Safety valve 3                                    |  | Tarage<br>Settings   |                   | - + bar  |  |
| <input type="checkbox"/>  |                                     | Disque de rupture / Burst. disc   |  | Nbre / n° série<br>Number / serial n°  |                   | °C   |  |
| <input type="checkbox"/>  |                                     | Fusible / Fusible element   |  |  |                   |  |  |
| OBSERVATIONS<br>REMARKS   |                                     | VACUUM MEASURED AT 5 MICRONS.   |  |  |                   |  |  |
| Inspecté par<br>Inspected by                                    |                                     | Zainorsham Bin Adnan  |  | Centre<br>Center   |                   | Singapore  |  |
| Ky6   |                                     | Date d'émission<br>Date of issue  |  | 13-Mar-2015  |                   | Signature & Cachet / Visa & Stamp  |  |
|   |                                     |   |  |  |                   |  |  |