

Certificate of Compliance

VK



2014

- ☒ This is a complete and certified tank/tank vehicle
- ☐ This tank/tank vehicle is incomplete and requires further construction, assembly and certification. A Certificate of Compliance shall be provided to the owner by the facility completing further construction assembly and certification.

161, rue Sylvestre
St-Germain-de-Grantham
Quebec, J0C 1K0
819-395-2307 TC25-1181

OWNER <u>Tank Source inc.</u>		MDIN <u>25710</u>	
TC SPECIFICATION <u>406</u>	TANK TYPE <u>57000L/6 ALUMINUM TRAILER</u>		
TANK VEHICLE ASSEMBLER <u>ADVANCE TANK PRODUCTION LTD.</u>	VIN <u>2AEASZAK3NL000146</u>		
TANK MANUFACTURED BY <u>Advance Tank Production Ltd.</u>	TANK MFD DATE <u>06-2022</u>		
ORIGINAL TEST DATE <u>06-2022</u>	TANK SERIAL NUMBER <u>13662-1</u>		
COMPLETION DATE <u>06-2022</u>	TANK MAWP INTERNAL <u>22,70 kPa</u> EXTERNAL <u>N/A</u>		
CERTIFICATION DATE <u>06-2022</u>	TANK TEST PRESSURE <u>34,50 kPa</u>		
MATL SPEC HEADS <u>5454-0</u> <u>N/A</u>	DESIGN TEMP. RANGE <u>-40 °C</u> TO <u>50 °C</u>		
MFD HEADS THICK <u>6,35 mm</u>	MIN HEADS THICK <u>5,84 mm</u>		
MATL SPEC SHELL TOP <u>5454-H32</u> SIDE <u>5454-H32</u>	BOTTOM <u>5454-H32</u>		
MFD SHELL THICK TOP <u>4,77 mm</u> SIDE <u>4,77 mm</u>	BOTTOM <u>6,35 mm</u>		
MIN SHELL THICK TOP <u>4,39 mm</u> SIDE <u>4,39 mm</u>	BOTTOM <u>5,97 mm</u>		
VOLUMETRIC CAPACITY <u>16622 L</u> <u>5323 L</u>	<u>5323 L</u> <u>7334 L</u> <u>8340 L</u> <u>16622 L</u>		
NOMINAL CAPACITY <u>16000 L</u> <u>5000 L</u>	<u>5000 L</u> <u>7000 L</u> <u>8000 L</u> <u>16000 L</u>		
EXPOSED SURFACE AREA <u>31,2 m²</u> <u>7,5 m²</u>	<u>7,5 m²</u> <u>11 m²</u> <u>12,7 m²</u> <u>31,2 m²</u>		
MAX LOAD RATE <u>2800 LPM</u> AT LOAD PRESSURE <u>22,7 LPM</u>	MAX PAYLOAD <u>42000 kPa</u>		
MAX UNLOAD RATE <u>2000 LPM</u> AT UNLOAD PRESSURE-VACUUM <u>-2,6 kPa</u>	LINING MATERIAL <u>N/A</u>		
HEATING SYS PRESSURE <u>N/A</u>	HEATING SYS DESIGN TEMP <u>N/A</u>		
WELD MATERIAL <u>5554</u>	TANK DESIGN PRESSURE <u>N/A</u>		
MAX DENSITY OF LADING <u>0,9 kg/L</u>	PERIODIC TANK RETEST PRESSURE <u>34,5 kPa</u>		
NATIONAL BOARD NUMBER <u>N/A</u> TCRN <u>N/A</u> CRN <u>N/A</u>	RT <u>N/A</u> ASME <u>N/A</u> PWHT <u>N/A</u>		
DIAMETER <u> </u> LENGTH <u> </u>	CORROSION ALLOWANCE <u> </u>		
MDMT <u> </u> TO <u> </u> AT <u> </u> (Internal) TO <u> </u> (External)			

This certifies the tank, tank vehicle has been designed, constructed, inspected and tested in accordance with the following:

- ☒ CSA B620-2020 TC 406 ☐ 49 CFR PART 178 DOT

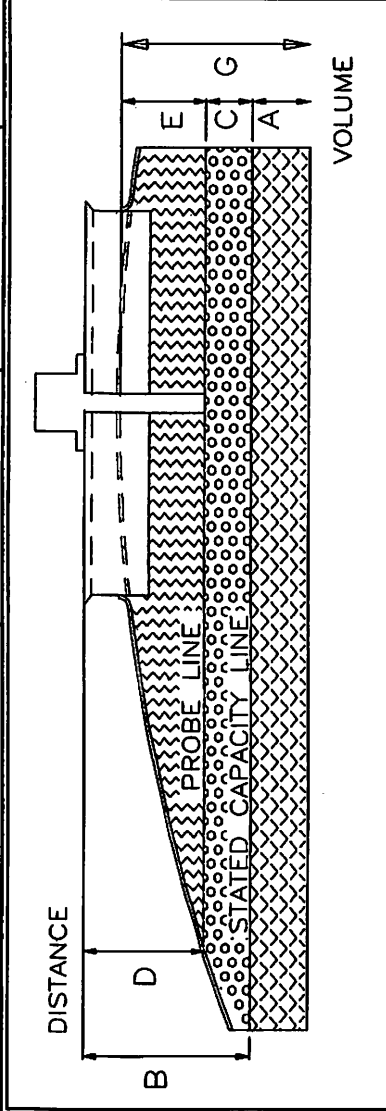
This Certification Includes The Following :		This Certification Excludes The Following	
☒ Tank	☒ Tank Supports And Anchoring	☐ Tank	☐ Tank Supports And Anchoring
☒ Tank Fittings	☒ Piping ☐ Pumps ☐ Hoses	☐ Tank Fittings	☐ Piping ☒ Pumps ☒ Hoses
☒ Tank Valves - Internal Self Closing		☐ Tank Valves - Internal Self Closing	
☐ Tank Valves - External Self Closing		☒ Tank Valves - External Self Closing	
☒ Tank Valves - External		☐ Tank Valves - External	
☒ Tank Valves Operator	☒ Thermal Closure ☒ Remote Closure	☐ Tank Valves Operator	☐ Thermal Closure ☐ Remote Closure
☒ Accident Damage Protection - Rollover		☐ Accident Damage Protection - Rollover	
☒ Accident Damage Protection - Bottom		☐ Accident Damage Protection - Bottom	
☒ Accident Damage Protection - Rear End		☐ Accident Damage Protection - Rear End	
☒ Inspection Testing and Markings		☐ Inspection Testing and Markings	
☒ Pressure Test	☒ Leak Test	☐ Pressure Test	☐ Leak Test
☒ Internal Visual Inspection	☒ External Visual Inspection	☐ Internal Visual Inspection	☐ External Visual Inspection
☒ Thickness Test	☐ Lining Inspection	☐ Thickness Test	☒ Lining Inspection
☒ Pressure Relief Device Type <u>Reclosing</u> Set Pressure <u>25,03 kPa</u>	Qty. Per Compl. <u>1</u>	☐ Pressure Relief Device	Set Pressure <u> </u> PSI
SCMH <u>13990</u> at <u>43,09 kPa</u>		SCFH <u> </u> at <u> </u> PSI	Qty. <u> </u>

DATE 06-2022 Name Philippe St-François Name Jean-François Gagnon

Note: This document must be retained throughout ownership of the tank and one year thereafter



Customer: Tank Source Inc.		Test or Calibrated:		TEST	
Unit Type: 4 AXLES SEMI TRAILER		Wet test by:		José Rodriguez	
Serial #: 2AEASZAK3NLO00146		Date:		06-2022	
MDIN #: 25710		Upper Fifth height:		N/A	
Head Size: 83 1/2" x 101"		Ride Height:		N/A	
Type of overfill system:		Tank Job #		13662-1	
		Compartment #	Compartment #	Compartment #	Compartment #
		1	2	3	4
A- Stated comp't capacity (L)		16000	5000	5000	7000
B- Top marker (in)		8 7/16	11 1/2	11 1/2	9 5/8
C- Top marker to probe(L)		142	73	73	84
D- Probe height (in)		7 3/8	10	10	8 1/4
E- Probe outage (L)		480	250	250	250
G- Skin full volume (L)		16622	5323	5323	7334
					8340
					16622



Tested by:	Advance Tank Production Ltd.	Address:	161 rue Sylvestre, St-Germain de Grantham, QC, J0C1K0	
Company Official:	Engineering Manager	Signature:	<i>Philippe J. F. Rodriguez</i>	
Date of Verification Sticker Issued:	(terminal representative)	Signature:	Date: 06-2022	

*all values based on theoretical data

LAZER INOX - ATPL
161 Sylvestre
St-Germain, Québec
J0C 1K0
TC : 25-1181

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Inspection Form B620
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V

External visual inspection (1 year)
Report

Date of inspection **06-2022**
Tank serial number **13662-1**

Owner : Tank Source inc.
address : 421, Industrial Road
City : London, Ontario
Zip code : N5V 1T6
Owner's Tel :
Owner's serial :
number

TC specification number : 406
Manufacturer : Advance Tank Production Ltd.
Manufacturer serial number : 2AEASZAK3NL000146
Mfg date : 06-2022
Original test date : 06-2022

A) TANK STRUCTURE

	accepted	rejected	corrected	note
1 Rings welds	☒	☐	☐	N/A
2 Structural parts welds	☒	☐	☐	N/A
3 Insulation	☐	☐	☐	
4 Outer shell	☒	☐	☐	
5 Front and rear cap	☒	☐	☐	
6 Spill box	☒	☐	☐	
7 Rollover protection	☒	☐	☐	
8 Placard holders	☒	☐	☐	
9 Fenders and supports	☒	☐	☐	
10 Rust on structure	☒	☐	☐	

B) SUSPENSION BOGIE

	accepted	rejected	corrected	note
1 Inspection sticker	☒	☐	☐	
2 Frame	☒	☐	☐	
3 Crossmembers and gussets	☒	☐	☐	
4 Welds	☒	☐	☐	
5 Rust on frame	☒	☐	☐	
6 King pin plate	☒	☐	☐	

C) EQUIPEMENT

	accepted	rejected	corrected	note
1 Manhole cover	☒	☐	☐	
2 Manhole gasket	☒	☐	☐	
3 External piping	☒	☐	☐	
4 Bottom valve	☒	☐	☐	
5 Hydraulic system	☐	☐	☐	N/A
6 Emergency control and fusible	☒	☐	☐	N/A
7 Rupture disc	☐	☐	☐	
8 Pressure relief	☒	☐	☐	
9 Vacuum breaker	☒	☐	☐	
10 Pressure inlet and gauge	☐	☐	☐	N/A
11 Inlet and outlet (Heat exchange)	☐	☐	☐	N/A
12 Caps and plugs	☒	☐	☐	
13 Hose assemblies	☐	☐	☐	N/A
14 Others	☐	☐	☐	

LAZER INOX - ATPL

V

External visual inspection (1 year)
Report

Date of inspection **06-2022**
Tank serial number **13662-1**

C) SECUREMENT

	accepted	rejected	corrected	note
1 Tank bracket	X			
2 Bolts / tie down	X			
3 Rear bumper	X			

NOTES :

1 _____

2 _____

3 _____

4 _____

☒ No defect or damage discovered

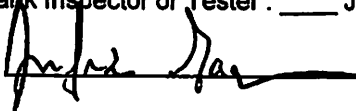
☐ Defect or damage discovered, corrected and retested

☒ Returned to service

☒ Marking applied

☐ Withdrawn From service, complete inspection

Name of Tank Inspector or Tester : Jean-François Gagnon

Signature : 

TC registration number : 25-1181

Date : 06-2022

Signature of owner : _____

date : _____

Internal visual inspection (1 year)
Report

Date of inspection **06-2022**
Tank serial number **13662-1**

Owner : **Tank Source inc.**
address : **421, Industrial Road**
City : **London, Ontario**
Zip code : **N5V 1T6**
Owner's Tel :
Owner's serial :
number

TC specification number : **406**
Manufacturer : **Advance tank production Ltd.**
Manufacturer serial number : **2AEASZAK3NL000146**
Mfg date : **06-2022**
Original test date : **06-2022**

A) INNER SHELL

	accepted	rejected	corrected	note
1 Heads	X			
2 Shell	X			
3 Corrosion, pitting	X			
4 Internal welds	X			
5 Dents, distortion	X			
6 2" openings				N/A
7 3" openings	X			
8 4" openings	X			
9 6" openings				N/A
10 Manhole collar	X			
11 Sump	X			
12 Others				

B) INSIDE PIPING

	accepted	rejected	corrected	note
1 Bottom valve	X			
2 C.I.P.				N/A
3 Others				

NOTES :

1 _____
2 _____

- ☒ No defect or damage discovered
- ☐ Defect or damage discovered, corrected and retested
- ☒ Returned to service ☒ Marking applied
- ☐ Withdrawn From service

Name of Tank Inspector or Tester : _____ Jean-François Gagnon

Signature : _____ TC registration number : 25-1181

Date : _____ 06-2022

Signature of owner : _____ date : _____

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Date of inspection	06-2022
Tank serial number	13662-1

TC specification number: 406
 Manufacturer: Advance Tank Production Ltd.
 Manufacturer serial number : 2AEASZAK3NL000146
 Mfg date: 06-2022
 Original test date: 06-2022

The calibration of the test gauge pressure is consistent with
+/- 2.5%, depending on the standard gauge: I-102

HEAT EXCHANGE	COMPARTMENT TESTED								
	1	2	3	4	5	6			
							Installation	Bottom valve bolt	
								Cap and Plug	
								Pressure relief	
								Manhole cover	
								Piping bolt	
								Suction line valve	
							Welding	Coupling	
								Manhole	
								Nipple	
								Piping	
								Tank weld	
							Part	Pressure relief	
								Valve	
							Corrected with	Tightened	
								Part changed	
								Rewelding done	
	3PSI	3PSI	3PSI	3PSI	3PSI	3PSI	Pressure applied		

- Signature of owner: _____ Date: _____

LAZER INOX - ATPL
161 Sylvestre
St-Germain, Québec
J0C 1K0
TC : 25-1181

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P

Pressure test (5 year)
Report

Date of inspection **06-2022**
Tank serial number **13662-1**

Owner : Tank Source inc.
Address : 421, Industrial Road
City : London, Ontario
Zip code : N5V 1T6
Owner's tel :
Owner's serial :
number

TC specification number: **406**
Manufacturer: **Advance Tank production Ltd.**
Manufacturer serial number : **2AEASZAK3NL000146**
Mfg date: **06-2022**
Original test date: **06-2022**

Gauge number: **I-207**
Calibration pressure: **5PSI**

The calibration of the test gauge pressure is consistent with
+/- 2.5%, depending on the standard gauge: **I-102**

Water Tested

HEAT EXCHANGE	COMPARTMENT TESTED								
	1	2	3	4	5	6			
							Installation	Bottom valve bolt	
								Cap and Plug	
								Pressure relief	
								Manhole cover	
								Piping bolt	
								Suction line valve	
							Welding	Coupling	
								Manhole	
								Nipple	
								Piping	
						X		Tank weld	
							Part	Pressure relief	
								Valve	
							Corrected with	Tightened	
								Part changed	
								Rewelding done	
						601			
	5PSI	5PSI	5PSI	5PSI	5PSI	5PSI	Pressure applied		

- ☐ No defect or damage discovered
☒ Defect or damage discovered, corrected and retested
☒ Returned to service ☒ Making applied
☐ Withdrawn from service, complete inspection

Name of Tank Inspector or Tester : José-Antonio Rodriguez

Signature: [Signature] TC registration number: 25-1181

Date: 06-2022

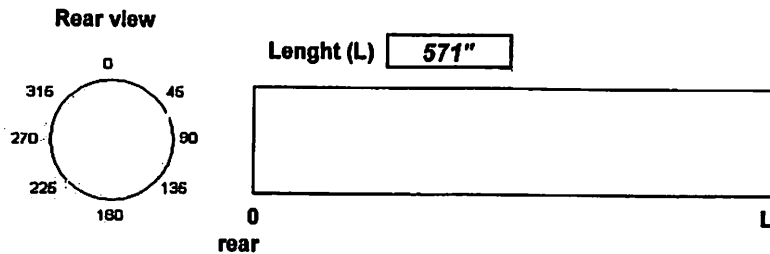
Signature of owner: _____ Date: _____

T
Thickness test (5 years)
Report

Date of inspection **06-2022**
Tank serial number **13662-1**

Owner : Tank Source inc.
address : 421, Industrial Road
City : London, Ontario
Zip code : N5V 1T6
Owner's Tel :
Owner's serial :
number

TC specification number 406
Manufacturer : Advance Tank production Ltd.
Manufacturer serial number : 2AEASZAK3NL000146
Mfg date : 06-2022
Original test date : 06-2022



Shell thickness								
	2"	56"	116"	161"	188"	245"	248"	354"
0	4,80	4,80	4,80	4,80	4,80	4,80	4,80	4,80
45	4,80	4,80	4,78	4,80	4,80	4,80	4,80	4,80
90	4,80	4,80	4,78	4,80	4,80	4,80	4,80	4,80
135	6,27	6,27	6,27	6,30	6,30	6,32	6,30	6,30
180	6,35	6,35	6,35	6,35	6,35	6,35	6,35	6,35
225	6,30	6,32	6,32	6,30	6,32	6,32	6,32	6,32
270	4,78	4,78	4,80	4,80	4,80	4,80	4,80	4,83
315	4,80	4,80	4,80	4,80	4,83	4,83	4,80	4,83

	411"	487"	544"	569"				
0	4,80	4,80	4,80	4,80				
45	4,80	4,80	4,80	4,80				
90	4,80	4,80	4,80	4,80				
135	6,30	6,30	6,30	6,30				
180	6,35	6,35	6,35	6,35				
225	6,30	6,32	6,32	6,30				
270	4,83	4,83	4,83	4,80				
315	4,80	4,80	4,80	4,80				

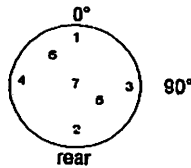
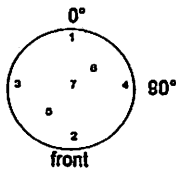
LAZER INOX - ATPL
161 Sylvestre
St-Germain, Québec
J0C 1K0

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T
Thickness test (5 years)
Report

Date of inspection **06-2022**
Tank serial number **13662-1**

Heads



Heads thickness

Front head

Rear head

1	6,17	6,25	6,20	6,12	6,15	6,17
2	6,20	6,17	6,32	6,17	6,17	6,17
3	6,30	6,22	6,30	6,20	6,17	6,20
4	6,32	6,22	6,30	6,22	6,25	6,25
5	6,22	6,17	6,20	6,12	6,17	6,17
6	6,20	6,15	6,17	6,12	6,15	6,17
7	6,17	6,15	6,20	6,12	6,15	6,12

Front head

Rear head

1	6,15	6,20	6,25	6,15	6,12	6,25
2	6,20	6,17	6,22	6,20	6,17	6,22
3	6,20	6,25	6,25	6,25	6,25	6,30
4	6,25	6,20	6,30	6,22	6,22	6,30
5	6,17	6,12	6,20	6,15	6,12	6,17
6	6,17	6,10	6,20	6,15	6,15	6,22
7	6,15	6,12	6,15	6,12	6,12	6,20

NOTES :

- 1 _____
2 _____
3 _____

- ☒ No defect or damage discovered
☐ Defect or damage discovered, corrected and retested
☒ Returned to service
☒ Marking applied
☐ Withdrawn From service

Name of Tank Inspector or Tester : Jean-Yves Letendre /

Signature : Jean-Yves Letendre

TC registration number : 25-1181

Date : 06-2022

Signature of owner : _____

date : _____

U/C

Upper Coupler (5 years)
Report

Date of inspection **06-2022**
Tank serial number **13662-1**

Owner : **Tank Source inc.**
address : **421, Industrial Road**
City : **London, Ontario**
Zip code : **N5V 1T6**
Owner's Tel :
Owner's serial number :

TC specification number : **406**
Manufacturer : **Advance Tank Production Ltd.**
Manufacturer serial number : **2AEASZAK3NL000146**
Mfg date : **06-2022**
Original test date : **06-2022**

A) Upper coupler

	accepted	rejected	corrected	note
1 King pin	☒			
2 Corrosion	☒			
3 Nuts & bolts	☒			
4 Welds	☒			
5 Distorsion	☒			
6 Others				

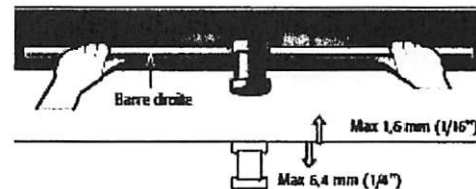
B) INSIDE

	accepted	rejected	corrected	note
1 Corrosion	☒			
2 Welds	☒			
3 Others				

NOTES :

- 1 _____
- 2 _____

Rejection criteria for distortion of the King Pin



☒ No defect or damage discovered

☐ Defect or damage discovered, corrected and retested

☒ Returned to service

☒ Marking applied

☐ Withdrawn From service

Name of Tank Inspector or Tester : _____ Jean-François Gagnon

Signature : _____ TC registration number : 25-1181

Date : _____ **06-2022**

Signature of owner : _____ date : _____



VAPOUR TIGHTNESS
PRESSURE - VACUUM TEST

UNIT

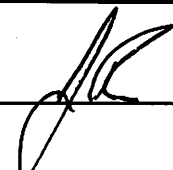
13662-1

VIN

2AEASZAK3NL000146

TEST 1	PRESSURE TEST			VACUUM TEST		
	INITIAL PRESSURE (INCH H2O)	TIME LAPSE (MIN)	FINAL PRESSURE (INCH H2O)	INITIAL VACUUM (INCH H2O)	TIME LAPSE (MIN)	FINISH VACUUM (INCH H2O)
DESCRIPTION						
REQUIREMENT	18	5	15	-6	5	-3
ACTUAL	9	5	9	-3	5	-2,5

TEST 2	PRESSURE TEST			VACUUM TEST		
	INITIAL PRESSURE (INCH H2O)	TIME LAPSE (MIN)	FINAL PRESSURE (INCH H2O)	INITIAL VACUUM (INCH H2O)	TIME LAPSE (MIN)	FINISH VACUUM (INCH H2O)
DESCRIPTION						
REQUIREMENT	18	5	15	-6	5	-3
ACTUAL						

INSPECTED BY: 

DATE: 06-2022

REGULATION SUMMARY

- Manometer shall be capable of measuring with a ± 0.1 inch H₂O precision.
- The test apparatus shall be equipped with an inline pressure-vacuum relief valves set to activate at 26.5 inch H₂O above atm pressure and 9.8 inch H₂O below with a capacity equal to the pressurizing or evacuating pump.
- Test cap for vapour recovery hose shall have a tap for manometer and a fitting with shut-off valve for connection to the pressure-vacuum supply hose.
- Applying air pressure-vacuum slowly, pressurize the tank to the pressure-vacuum specified.
- Change in pressure for two consecutive runs shall agree with 0.5 inch H₂O.
- Vapour Tightness pressure-vacuum test shall be done annually.

REFERENCES

- U.S. Environmental Protection Agency, 40 CFR 60 Method 27 Vapor Tightness of Gasoline Delivery Tank
- Règlement relatif à l'assainissement de l'air (Communauté urbaine de Montréal)