APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION

1 APPROVAL REQUESTED OF: PRECE	DENT	2 TYPE: CONSTRUCTION		WELDED REPA	IRS	3 AAR NO.	Page L116022	e 1 of 2 A
NON-PI	RECEDENT	ALTERATION	j	OTHER		4 DATE:	JUNE 17	, 2011
		CONVERSION				5 APPLICANT'S NO.	T11020	
6 APPLICANT: TRINITY TANK CA	R, INC.					7 TANK SPECIFICATION	N: DOT 111	A100W1
P.O. BOX 568887	DALL	AS, TEXAS 75356-	-888	37		8 STENCILED SPEC.:	DOT 111	A100W1
9 REPORTING MARKS & CAR NUMBERS	GATX 286	000 thru GATX 28	363	57		10 NUMBER OF CARS	358	
11 Initial commodity	SEE N	NOTES		Density, lb.			6.63	
13 Full water capacity, gal.	31,80		14	Dome capa	city or out	age, gal.	per DOT 173.	.24b(a)(1)
15 Material type & grade - heads	AAR T	C128 Gr. B NORM		Material typ			AAR TC128 G	. B NORM
17 Material thickness - heads, in.	1/2			Material thic			1/2	
19 Lining type	NONE			Inside diam			122-1/2	
21 Inside diameter - end rings, in.	122-1	/2		Head radius		. (if not 2:1)	2:1 ELLIPS	SOIDAL
23 Test pressure, psig	165		24	Insulation ty	уре		NON	E
25 Insulation thickness, in.	NONE		26	Thermal co	nductivity,	Btu-in/hr-ft ² -°F	N.A.	
27 Type and number of safety reli		ONE VALVE	28	Safety device	ce start-to	-discharge, psig	165	
29 Safety device flow cap'y., scfm	req'd.	26,879	30	Safety device	ce flow ca	pacity, scfm, act	ual 35,60	08
31 Tank surface area, sq. ft.		1,806	32	Underframe	or stub s	ill type	STUB SILL	TRN 024
33 Center of gravity, loaded, in.		88.7	34	Est. light we	eight, lb.		75,30	00
35 AAR clearance diagram		С	36	Rail load lin	nit, lb.		286,0	000
37 Truck capacity, tons	•	100	38	Head shield	is		1/2" thk A	572-50
NOTES: Petroleum Crude Oil (P								
in DOT Part 173 for whi				_	rig. Cert.			
requirements and nonre	gulated comm	nodities compatible			uilder			
with this class of car.					ate			
* Safety Valve sized using equ	ation 8 1 1 1a	of Annendiy A		<u> </u>	ormer ladi	ng		-
Carety valve sized using equ	ation o. i. i. ia	or Appendix A			-	ho following pri		l
The Following Drawings	Apply	Drawing N	umb	per		he following price		
30.0		M 042 T4402	_		Drawi	ng Number	Application/Ce	rtificate No.
39 General Arrangement		M-042-T1102		1 4 4b E				
40 Arrangement, Tank		T-025-T11020 T-030-T11020		_				_
41 Reinforced Openings								
42 Draft Sill Arrgt. 43 Fittings Arrangement		U-075-80002 SH. 1A & 2A F-020-T11020 SH. 1 & 2						
***************************************				1. 1 & 2				
44 Manway Assembly		T-032-80004 F-050-80001						
45 Protective Housing		SEE PAGE 2						
46 Venting, Loading and Discharge V47 Safety Relief Devices	aives	MIDLAND A-2	16	5			SRD 002	2012
	1	NONE	210	-			3KD 002	.012
48 Heater Systems (Int. Ext. 49 Gaging Device (Visual	[<i>]</i>	T-030-T11020	1 61	١ ٥				
50 Bottom Outlet Valve	Scale)	JAMESBURY 4			VT		E079011	
51 Bottom Outlet Arrangement		V-014-80002	91	10-22116			E079011	
52 Manway cover		F-021-80002						-
53 Calculations		D-744014						
54 Tank Qualification Drawing		T-023-80001						
REVISIONS:		1-023-00001		APPLICAT	ION DV:	SAND	/ MCOUEEN	
Rev.A, June 30, 2011: Revised li	noc 20 42 9 .	note on name 2					L. MCQUEEN	
Rev.A, Julie 30, 2011: Revised II	iles 30, 42 & i	iote on page z.				onformato all applica	able Do I and AAR	
				including Spec Safety Appliana				DT Railroad
				SIGNATUR				
				TITLE		ENGINEER	ING MANAGE	R
APPROVAL - AAR Tank Car Com	mittee		_					
		pproved AUG 16	20	111				
	Date A	oproved UU IO	۷۱	/	/			
Signature on behalf of Tank Car Commune								
CERTIFICATION: The cars enumerated below conform to the above approved description and to all applicable DOT and AAR requirements								
including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards. Copy of this Certificate of Construction will be furnished to the owner and others as required by 49 CFR Part 179.5 before these cars are placed in service.								
	,357			Name			Date 8	-22-11
GATX 286000 - 280	, 3 ~ 1					/	1	
Form AAR 4-2 Revised 12/1/00	4-			Title	V	PQuality Assur	ance	

AAR Number _	L116022A		
Applicant's No.	T11020		
Date	June 17, 2011		

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-	THE FOLLOWING DRAWINGS APPLY	DRAWING NUMBER	PRECEDENT APPLICATION NO.
56. 57.	20" NOZZLE ASSEMBLY FITTINGS COVER PLATE TANK HEAD SHIELD ASSY – A END TANK HEAD SHIELD ASSY – B END	T-032-80006 F-300-80002 T-034-80000 T-034-80001	
	LINE 46 VENTING, LOADING AND D THESE ARE THE VALVES REFERENCE.		020-T11020

2<u>" FLANGED BALL VALVE</u>
JAMESBURY 9150 ------ <u>AAR E089013</u>

MIDLAND A-220-W VACUUM RELIEF VALVE ----- AAR E002010

The tank cars of this application are constructed in accordance with all applicable DOT/TC and AAR requirements, including AAR Standard S-286-2006 and MSRP C-III, Section 2.5.

	AAR requireme	ne foregoing conforms to all applicable DOT and nents, including Specifications, Regulations, Rule
	of Interchange Standards. SIGNATURE TITLE	E and the DOT/Railroad Safety Appliance Engineering Manager
APPROVAL AAR Tank Car Committee	Date Approved_	
Form AAR 4-2.1 Revised 12/1/00		(Signature) on behalf of Tank Car Committee Page 2 of 2