

Appendix C: Tank Car Inspection Forms

* Interior damages : ① No tear or punctures

② Large indentations on top / A. Right Side, coincident to major exterior dents.

③ No interior damage to A or B ends

7-26-05

TANK CAR DAMAGE ASSESSMENT WORKSHEET

Car Initials & Number: **GATX 58326**

Tank Car Characteristics		Features	Y	N
Type of Car: <input type="checkbox"/> Non-pressure <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Cryogenic	<input type="checkbox"/> Other _____	Jacketed	✓	
Specification No.: IIIA100W-1	Shell Capacity: 16,141 gal	Insulated	✓	
Year Constructed: 1980	Tank Test Pressure:	Thermal Protection	✓	
Underframe: <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Stub Sill		Linings	✓	
Thermal Protection: <input checked="" type="checkbox"/> Jacketed <input type="checkbox"/> Sprayed-on		Claddings		✓
Construction Material: Type/Grade: _____ Thickness: _____		Heater Coils		✓

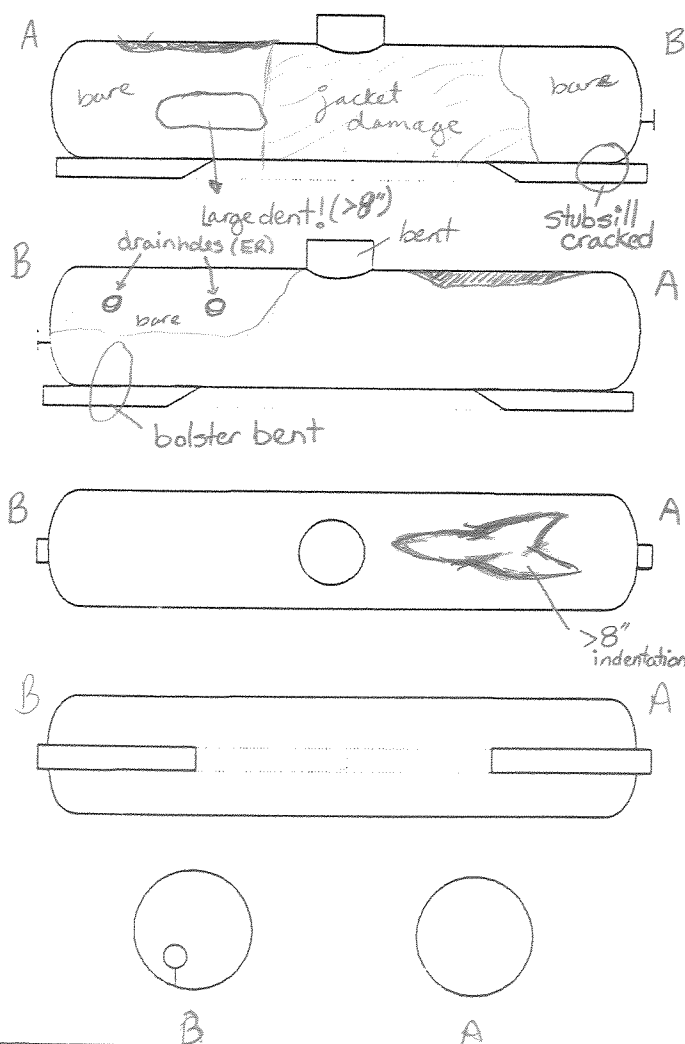
Vanguard
7435 Lining
(1-98)

Stress: ☐ Thermal ☒ Mechanical ☐ Chemical ☐ None

Fitting Damage

Jacket, Tank and Head Damage

Indicate location and severity of damage (punctures, crack scores, gouges, wheel burns, dents, rail burns, underframe, and leaks) on the appropriate diagram(s).



Fitting	Damage	Description
<input type="checkbox"/> Liquid Valve	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Vapor Valve	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Air Valve	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Bottom Outlet Type: _____	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Safety Relief Device Type: _____	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Vacuum Relief	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Gauging Device Type: _____	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Manway Cover	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Fill Hole	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Sample Line	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Thermometer Well	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Washout	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Sump	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Other Type: _____	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	

* Interior Damages : ① No tears or punctures

② Slight indentations on A. Right and B. Right, coincident to outer damage

③ No Interior damage to either A or B ends

5-26-05

TANK CAR DAMAGE ASSESSMENT WORKSHEET

Car Initials & Number: GATX 17105

Tank Car Characteristics		Features	Y	N
Type of Car: <input type="checkbox"/> Non-pressure <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Cryogenic		Jacketed	✓	
Specification No.: <u>105J500-W</u>	Shell Capacity: <u>17,312 gal</u>	Insulated	✓	
Year Constructed: <u>2000</u>	Tank Test Pressure:	Thermal Protection	✓	
Underframe: <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Stub Sill		Linings		✓
Thermal Protection: <input checked="" type="checkbox"/> Jacketed <input type="checkbox"/> Sprayed-on		Claddings		✓
Construction Material: Type/Grade: _____ Thickness: _____		Heater Coils		✓

Stress: ☐ Thermal ☒ Mechanical ☐ Chemical ☐ None

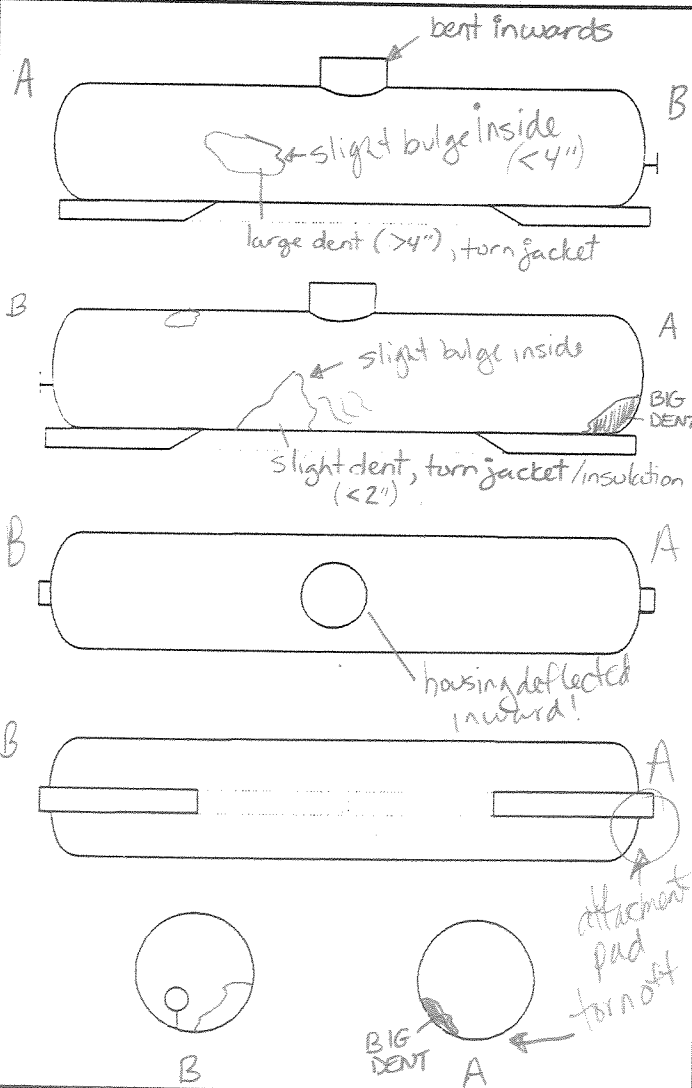
Jacket, Tank and Head Damage

Indicate location and severity of damage (punctures, crack scores, gouges, wheel burns, dents, rail burns, underframe, and leaks) on the appropriate diagram(s).

Fitting Damage

Fitting	Damage	Description
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<input type="checkbox"/> Liquid Valve	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Vapor Valve	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Air Valve	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Bottom Outlet Type: _____	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Safety Relief Device Type: _____	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Vacuum Relief	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Gauging Device Type: _____	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Manway Cover	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Fill Hole	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Sample Line	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Thermometer Well	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Washout	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Sump	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Other Type: _____	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	



7-26-05

* Interior Damages : ① No tears or punctures
 ② Series of indentations at Bend; coincident with outer damage (head strike?)
 NOTE: Ultrasonic readings taken of material thickness at several points (see photos)

TANK CAR DAMAGE ASSESSMENT WORKSHEET		Car Initials & Number: <u>SBLX 14146</u>		
Tank Car Characteristics Type of Car: <input type="checkbox"/> Non-pressure <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Cryogenic <input type="checkbox"/> Other: _____		Features	Y N	
Specification No.: <u>105J500W</u>		Jacketed	✓	
Shell Capacity: <u>17,380 gal</u>		Insulated	✓	
Year Constructed: <u>1997</u>		Thermal Protection	✓	
Tank Test Pressure: _____		Linings	✓	
Underframe: <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Stub Sill		Claddings	✓	
Thermal Protection: <input checked="" type="checkbox"/> Jacketed <input type="checkbox"/> Sprayed-on		Heater Coils	✓	
Construction Material: Type/Grade: _____ Thickness: _____				
Stress: <input type="checkbox"/> Thermal <input checked="" type="checkbox"/> Mechanical <input checked="" type="checkbox"/> Chemical <input type="checkbox"/> None		Fitting Damage		
Jacket, Tank and Head Damage		Fitting	Damage Description	
<p>Indicate location and severity of damage (punctures, crack scores, gouges, wheel burns, dents, rail burns, underframe, and leaks) on the appropriate diagram(s).</p>		<input type="checkbox"/> Liquid Valve	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
		<input type="checkbox"/> Vapor Valve	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
		<input type="checkbox"/> Air Valve	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
		<input type="checkbox"/> Bottom Outlet Type: _____	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
		<input type="checkbox"/> Safety Relief Device Type: _____	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
		<input type="checkbox"/> Vacuum Relief	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
		<input type="checkbox"/> Gauging Device Type: _____	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
		<input type="checkbox"/> Manway Cover	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
		<input type="checkbox"/> Fill Hole	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
		<input type="checkbox"/> Sample Line	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
		<input type="checkbox"/> Thermometer Well	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
		<input type="checkbox"/> Washout	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
		<input type="checkbox"/> Sump	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING	
<input type="checkbox"/> Other Type: _____	<input type="checkbox"/> YES <input type="checkbox"/> LEAKING			