



#### **CERTIFICATE NUMBER**

# Commercial Vehicle Inspection Certificate Traffic Safety Act

# PART 1 - VEHICLE OWNER AND VEHICLE IDENTIFICATION

Vehicle Typ	e:	Truck				Seating	Cap	acity	:					
GVW:		60000 k	g			Brake 1	Гуре:			Air				
Owner Nam	ne:	Big Stea	am Oilfield	d Ser	vices	Ltd								
Address:	Po	Box 789												
City:	Bro	oks			Prov	ince:	AB				Posta	al Code:	T1R	1B7
Telephone	Num	ber:	(403) 501	1-533	5									
Vehicle Ide	ntific	ation Nu	mber:	1	11	NKDX4E	(3CR	9491	63					
Make:	T	Kenworth	2					Mod	del: C	onstru	ıct			
Year:	1	2012		1 11				Uni	it Nun	nber:		238		
Odometer:	Odometer: 333681 KM Licence				Plate Number: K389			K3894	49		Province	e:	AB	

### IT IS AN OFFENCE TO FALSIFY AN INSPECTION CERTIFICATE

#### **PART 2 - CERTIFICATION**

I certify the vehicle described in Part 1 has passed the inspections and tests established under the Traffic Safety Act for a Commercial Vehicle.

Inspection Facility Name:		Facility Number:
Big Steam Oilfield Services Ltd.		15339
Inspection Technician Name:		Technician Number:
Pedro Reimer		B8398
Inspection Technician Signature	e:	(0+1)
Inspection Date:	2022/04/06	



# COMMERCIAL VEHICLE RECORD OF INSPECTION TRUCK AND TRUCK-TRACTOR

The original Record of Inspection must be given to the customer regardless of whether the vehicle passes or not.

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														0000	ng .		
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Uni	t Numbe	er		Year			Mal			V III	Mode					ometer	
	238			2012			Kenw	orth			Const	ruct			33	3,681	
					Re	gistered	Owner	's Name							Plate	Numbe	r
					Big S	team Oil	field Se	rvices l	_td						КЗ	8949	
					Address			A 741				Postal				one Nu	
				P	Box 7	789						T1R1	B7		(40	3) 501-	0335
	Drum Br	akes:	B-Wh	neel-on F	ull Inspe	ction			Disc B	rakes:							
			1			LEFT		FR	RONT		RIGHT			1			
		11	00 psi			16.54	in		s/Rotors		16.54			10	0 psi		
			20 in			9/16	in	Linin	gs/Pads		9/1				0 in		
				_		1	in	Push F	Rod Travel			1 in					
	100 psi	10	00 psi	-		16.505	in		s/Rotors	1	16.50	7 in /2 in		100	0 psi	100 p	si
	25 in		25 in	-		1/2	in in		gs/Pads Rod Travel		-	1 in	-	2	1 in	21 i	n
				-												11111111	
_						16.508	in	Drum	s/Rotors		16.50	6 in		400		100 p	(10.
-	100 psi		00 psi			9/16	in	Linin	gs/Pads		9/	16 in		_	psi B in	18	
(	19 in	人_	19 in			1	in	Push F	Rod Travel			1 in		=			
								Page 1									
(	100 ps	1	00 psi			16.507	in in		ns/Rotors	-	16.50			100	) psi	100 p	si
-	17 in		17 in	- 11		9/16			ngs/Pads Rod Travel	-	31	1 in		1:	5 in	15 ir	1
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	ps	·	_ psi				in	Linin	ngs/Pads			in			psi in		n
	in	<u></u>	in_				in	Push F	Rod Travel			in		-			
		_					in	Drum	s/Rotors			in		-			7
	ps	i	psi	-			in		ngs/Pads			in			psi		si
	in	1	in		LEBAR		in		Rod Trave			in		_	_ in 人		
			744														
					Brake Li eel Torq			lnner		n/a in ft lbs C		n/a n/a	in It lbs				

# COMMERCIAL VEHICLE RECORD OF INSPECTION TRUCK AND TRUCK-TRACTOR

	Secti	on	3A - Air Brake	S			
Component	P	F	NA	Component	P	F	N
3A.11. Parking Brake & Emergency Application	1						

#### NOTES:

	Sec	ctio	n 4 -	Steering			
Component	P	F	NA	Component	P	F	NA
4.1. Steering Control and Linkage	1			4.4. Kingpin	1		
4.2. Power Steering System (Hydraulic and Electric)	1			4.5. Self-Steer and Controlled-Steer Axle	1		
4.3. Steering Operation (Active Steer Axle)	1						

#### NOTES:

S	ection 5 - Instru	mer	its a	nd Auxiliary Equipment			
Component	P	F	NA	Component	P	F	NA
5.1. Fire Extinguisher	1			5.8. Heater & Windshield Defroster	1		
5.2. Hazard Warning Kit	1			5.9. Fuel-Burning Auxiliary Heater			1
5.3. Horn	1			5.10. Chain/"Headache" Rack			1
5.5. Speedometer	1			5.11. Auxiliary Controls and Devices			1
5.6. Odometer	1			5.12. Auxiliary Drive Controls	<b>/</b>		
5.7. Windshield Wiper/Washer	1						

#### NOTES:

	Se	ctio	on 6	- Lamps			
Component	P	F	NA	Component	P	F	NA
6.1. Required Lamps	1			6.4. Instrument Panel Lamps	1		
6.2. Reflex Reflector	/			6.5. Headlamp Aim	1		
6.3. Retro-Reflective Marking	1						

#### NOTES:

	Section	7 -	Elec	trical System			
Component	P	F	NA	Component		F	NA
7.1. Wiring	/			7.3. Trailer Cord (output to towed vehicle)	1		
7.2. Battery	1						

#### NOTES:

	S	ect	on 8	- Body			
Component	P	F	NA	Component	P	F	NA
8.1. Hood or Engine Enclosure	1			8.12. Bumper	<b>/</b>		
8.2. Tilt Cab	1			8.13. Windshield	1		
8.3. Air-Suspended Cab	1			8.14. Side Windows	/		
8.4. Cab and Passenger-Vehicle Body	1			8.15. Rear Window	/		
8.5. Cargo Body	1			8.16. Interior Sun Visor	1		
8.6. Frame, Rails & Mounts	1			8.17. Exterior Windshield Sun Visor	1		
8.7. Unitized Body Elements	1			8.18. Rear-View Mirror	1		
8.8. Cab or Cargo Door	1			8.19. Seat	/		
8.9. Cargo Tank or Vessel	1			8.20. Seat Belt/Occupant Restraint	1		
8.10. Body, Device or Equipment Attached or Mounted to the	1			8.21. Fender/Mud Flap	1		



1791 30th St. S.W. Medicine Hat, AB T1B 3N5

Phone: (403) 527-7272 Fax: (403) 529-6526

Facility Registration No. 25-0709

## Inspection Report in Accordance with CSA B620-20

TANK OWNER: Big Ste									
	eam Oilfield	Services	714276						
ADDRESS: #5 Boswe	Il Cres Broo	ks Alberta 1	T1R 1B7						
TELEPHONE: (403) 793-7	7046		SERIAL NO.	: WT0511537	7				
UNIT NO.: 238			MVID/TCRN	v: Z.05.092.0	2.08				
MANUFACTURER: Weste	ech		ASSEMBLE	R: Westech					
TC SPEC.:407	MATERIAL:	SA 36		CERTIFICAT	ION DATE: 0	8/2011			
MINIMUM THICKNESS S	HELL: 5.36 m	m	MINUMUM	THICKNESS	HEAD: 5.26 n	nm			
MAWP: 25 psi	DESIGN PRE	SSURE:				,			
LINING: YES  SPECIAL SERVICE CONDI	NO 🗸	INS	SULATED:	YES	NO 🗹		*	,	
COMP. CAPACITY:	1 11652 L		2		3				
	4		5						
NSPECTION PERFORMED		I 🗸	P  PRESSURE:	K 🗸	Т	uc		L	
#1) TYPE: Fort Vale	SERIAL NO:	1160125	OPEN PSI:3	0 psi	RESEAT PSI	: 30 psi			1
and the Co		REPAIRED		REPLACED				4	
REINSTALLED 🗹	_	Accessed to the second	_						
	SERIAL NO:		OPEN PSI:		RESEAT PSI	:			
#2) TYPE:	SERIAL NO:	REPAIRED	OPEN PSI:	REPLACED	RESEAT PSI	L			
#2) TYPE: REINSTALLED	SERIAL NO:	REPAIRED	OPEN PSI: OPEN PSI:	REPLACED	RESEAT PSI				
#2) TYPE: REINSTALLED  #3) TYPE:		REPAIRED		REPLACED					
#2) TYPE: REINSTALLED  #3) TYPE: REINSTALLED		REPAIRED							
#2) TYPE: REINSTALLED	SERIAL NO:	REPAIRED	OPEN PSI:		RESEAT PSI				
REINSTALLED 42) TYPE: REINSTALLED 43) TYPE: REINSTALLED 44) TYPE: REINSTALLED 45) TYPE:	SERIAL NO:	REPAIRED REPAIRED	OPEN PSI:	REPLACED	RESEAT PSI				

#### **EXTERNAL VISUAL INSPECTION "V"**

Item Inspected	QC Man.Ref.	Complles	Reject	Retest Compiles
Data plate, present and legible	12.2.3	x		
Shell & heads; corrosion, dents, overlay patches, leaks, voids, etc.	12.2.4	Х		
Structural members, outriggers crossmembers, etc.	12.2.5	×		
Upper coupler for cracks, corrosion, distortion, and bolt tightness	12.2.6	N/A		
Piping and valves for leakage, damage, and corrosion	12.2.7	Х		
Valve operating systems, remote closures, and thermal devices	12.2.7	х		
Hoses for defects, identification and test dates	12.2.8	Х		
Gaskets on full opening rear heads for damage or cuts	12.2.9	Х		
Tank attachments to frame or running gear	12.2.10	Х		
Ladders, walkways, platforms, etc.	12.2.11	x		
Fill covers, manways, and closure devices	12.2.12	X		
Relief valves and vents (replace or test if in corrosive lading Service)	12.2.13	х		
Accident damage protection; compliance, damage, distortion, corrosion	12.2.14	x		
Off truck emergency shut down system	12.2.15	х		
Inspector: Dan Laekeman Signature:		Date: May	31, 2022	

#### INTERNAL VISUAL INSPECTION "I"

Item Inspected	QC Man Ref.	Complies	Reject	Retest Complies
Interior surface for corrosion, distortion, overlay patches, cracking, etc.	12.3.2	×		
If required by the tank specification perform Wet Fluorescent Magnetic Particle Inspection and file report in accordance with Dynamic Industrial Solutions Proceedure Number QP-16	12.3.3	х		
Interior welds for defects, cracking, etc.	12.3.4	х		
Internal supports and attachments	12.3.5	х		
Internal valves, piping and vents for leakage, damage, etc.	12.3.5	. х		
Inspector: Dan Laekeman Signature:		Date: Ma	y 31, 2022	y

### **Rejection Criteria for Visual Inspections**

Any of the following conditions shall cause the tank to be rejected:

Less than minimum material thickness under any cut, dig or gouge

Any dent with depth greater than 1/2" where it includes a weld

Any dent with a depth greater than 10 % of the length of the dent

Any weld defect including a crack, pinhole, or incomplete fusion of the weld

Any structural defect or any source of leakage or any repairs made using overlay patches

Defective, unidentified or out of test hose assemblies

### HYDROSTATIC LEAKAGE TEST "K"

(QC Manual Reference 12.4)

Test Pressure: 20 psi

(80% of the MAWP Min.)

21821460039

Test Medium: Water

Pressure Gauge Serial No.:

Calibration Date: Jan. 13, 2023

Hydrostatic Leakage Test Item	QC Man.Ref.	Compiles	Reject	Retest Complies
All product piping, valves, and accessories in place. Breathing vents rendered inoperative.	12.4.2	x		
Close al internals and open all discharge valves.	12.4.5	х		
Ensure all adjacent compartments and voids are empty and open to atmosphere.	12.4.6	×		1
Fill compartment with enough test medium to cover valves.	12.4.7	х		
Pressurize tank to correct pressure and hold for 5 min. (Must have 0 psi pressure drop).	12.4.8	х		
While under pressure check tank, gaskets, internal valves, manhole covers, and vents for leakage.	12.4.9	х		
Close discharge valves and open internal valves. Adjust pressure and check plumbing and discharge valves for leakage.	12.4.10	x		
Restore operation of all vents.	12.4.12	Х		
Tester: Dan Laekeman Signature:		Date: May	31, 2022	

HYDROSTATIC PRESSURE TEST "P"

(QC Manual Reference 12.5)

Test Pressure (Tank):

(Refer to Table 7.4 of CSA B620-20 posted in fitting cabinet for appropriate test pressure)

Test Pressure (Piping):

(80% of the MAWP)

Test Medium:

Pressure Gauge Serial No.:

ressure dauge serial No				Market Street	
Hydrostatic Pressure Test Item		QC Man Ref.	Complies	Reject	Retest Complies
Level and adequately support the tank.		12.5.1.3			
Remove self closing relief valves for testing.	12.5.1.4				
Remove or render inoperative all other relief dev	ices and close internal valves.	12.5.1.5			
Ensure all remaining closures are rated at or abou		12.5.1.6			
Ensure adjacent compartments and voids are em	ipty and open to atmosphere.	12.5.1.7			
Fill compartment completely with water.		12.5.2.1			
Install pressurization line and slowly increase pre	ssure to test pressure.	12.5.2.2 & 3			
Disconnect pressure source and hold pressure fo	r 10 minutes.	12.5.2.4			
With tank under pressure inspect exterior for lea	iks, defects, or distortion.	12.5.2.5			
Relieve pressure in tank.		12.5.2.6			
Close discharge valves and open internals. Pressi MAWP. Hold for 10 minutes and check plumbing leaks.	12.5.2.7				
Relieve pressure and drain tank.		12.5.2.9			
Reinstall or return all relief valves to working condition.		12.5.2.10			
Tester:	Signature:		Date:		

#### PNEUMATIC LEAKAGE TEST "K"

(QC Manual Reference 12.4)

Test Pressure:

(80% of the MAWP Min.)

Test Medium: Calibration Date:

Pressure Gauge Serial No.:

riessule dauge serial No		Calibration Date.					
Pneumatic Leakage Test Item		QC Man.Ref.	Complies	Reject	Retest Complies		
All product piping, valves, and ac inoperative.	cessories in place. Breathing vents rendered	12,4.2					
Close all internals and open all di	scharge valves.	12.4.5					
Ensure all adjacent compartment atmosphere.	ts and voids are empty and open to	12.4.6					
Fill compartment with enough te	st medium to cover valves.	12.4.7					
Pressurize tank to correct pressu pressure drop).	re and hold for 5 min, (Must have 0 psi	12.4.8					
While under pressure check tank and vents for leakage.	, gaskets, internal valves, manhole covers,	12.4.9					
Close discharge valves and open internal valves. Adjust pressure and check plumbing and discharge valves for leakage.		12.4.10					
Releive pressure in tank and restore operation of all vents.		12.4.12					
Tester:	ter: Signature:		Date:				

NOTE: A pneumatic pressure test, with the concurrence of the tank owner shall only be performed when there is no suspicion of weakness in the tank and residual water in the tank would adversely react with the lading or the tank, or any lading retention component, or result in the formation of ice causing damage to or adversely affecting the functioning of the tank.

PNEUMATIC PRESSURE TEST "P"

(QC Manual Reference 12.5)

Test Pressure (Tank):

(Refer to Table 7.4 of CSA B620-20 posted in fitting cabinet for appropriate test pressure)

Test Pressure (Piping):

(80% of the MAWP)

Test Medium:

Pressure Gauge Serial No.:

Pneumatic Pressure Te	est Item	QC Man	Complies	Reject	Retest
		Ref.			Complies
Level and adequately support the tank.	12.5.1.3				
Remove self closing relief valves for testing.		12.5.1.4			
Remove or render inoperative all other relief dev	ices and close internal valves.	12.5.1.5			
Ensure all remaining closures are rated at or abou	ve test pressure.	12.5.1.6			
Ensure adjacent compartments and volds are em	pty and open to atmosphere.	12.5.1.7	1 18 1 <u>  11</u>		
Advise all personnel that a pneumatic test is bein must stay clear of the tank being tested.	g performed and that they	12.5.3.2			
Apply pressurization line and slowly increase pressure in tank. Pressure to one half the test pressure then increase by 1/10 of test pressure until pressure is reached.		12.5.3.3- 12.5.3.5			
Hold pressure for 10 minutes, then reduce it to t	he MAWP.	12.5.3.6			
Maintain pressure while using soap and water to joints and around all venting and piping.	coat entire surface of all	12.5.3.7			
Relieve pressure in tank, close discharge valves a	nd open internal valves.	12.5.3.8 & 9			
Re pressurize tank to 80 % of the MAWP and hold for 10 min. Soap surface of all joints and connections in the section of plumbing being tested.		12.5.3.10 & 11			
Relieve pressure in tank.		12.5.3.12			
Reinstall or return to working condition all relief	devices.	12.5.3.14			
Tester:	Signature:		Date:		

THICKNESS TEST "T"

(QC Manual Reference 12.6)

	12:00	3:00	6:00	9:00				
					HEAD	FRONT H	HEAD	
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2					2			
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	12:00	3:00	6:00	9:00				
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Minimum	Thickness		Signature:	Shell:		Date:		
vinimum	Thickness	Head:		Shell:		Date:		
Minimum  nspector:	Thickness  SYSTEM TES	Head:		Shell:		Date:		
Minimum  nspector:  HEATING  Test Pressu	Thickness  SYSTEM TES	Head:		Shell:				
Minimum  Inspector:  HEATING  Test Pressure Geressure Geressure Geressure	Thickness  SYSTEM TES	Head:	Manual Ref	Shell:	QC Man.Ref.	Test Medium		Retest Complie
nspector: HEATING Test Pressure G H Insure all tan	Thickness  SYSTEM TES  Ire  auge Serial No	Head:  T (QC  O.:  Tem Test Ir  are empty and	Manual Ref	Shell: erence 12.10 tem	QC	Test Medium Calibration Da	ate:	
nspector: HEATING Fest Pressure G H Ensure all tan Fill heating sy MAWP Hold test pres	SYSTEM TES  Ire  auge Serial No  eating Stsy	Head:  T (QC  O.:  Tem Test Ir  are empty and and pressurize to	Manual Reformance of 1.5 times the home	shell: erence 12.10 tem pressure neating systems	QC Man.Ref.	Test Medium Calibration Da	ate:	Retest

UPPER COUPLER INSPECTION UC (QC Manual Reference 12.2.6)

Upper Coupler Inspection Item		QC Man.Ref.	Complies	Reject	Retest Complies
Remove Upper Coupler or Turntable from unit		12.2.6			
A STATE OF THE PARTY OF THE PAR	oper Coupler or Turntable assembly for ortion or any other condition that would render	12.2.6.1			
While removed inspect Upper C wear and kingpin wear.	coupler assembly for cracks, distortion, plate	12.2.6.2			
If equipped, inspect Turntable f	or wear, distortion and cracks	12.2.6.3			
Install Upper Coupler or Turntable assembly		12.2.6.4			
Inspector: Signature:			Date:		

LINING INSPECTION L (QC Manual Reference 12.7.2)

Upper Cou	pler Inspection Item	Man.Ref.	Complles	Reject	Complies
Inspect rubber liners using a spark tester and following manufacurers instructions		12.7.1.1			
Inspect all linings other that rubi lining manufacturers instruction	per of FRP corrosion barriers according to the	12.7.2.1			
if lining damage is discovered inspect the tank wall under the damaged lining and thickness test if required.		12.7.3.1			
Inspector: Signature:			Date:		

Description of defect	s found and methods used to repair:					_
TANK DISPOSITION	Removed from service	YES		NO	1	
	Safety Mark (Specification Indication) removed	YES		NO	J	
	Returned to Service	YES	4	NO		
Tank marking applied	d (QC Manual Reference Section 15)	YES	4	NO		



1791 30th St. S.W.

Medicine Hat, AB T1B 3N5

Phone: (403) 527-7272

Fax: (403) 529-6526

Facility Registration No. 25-0709

## Inspection Report in Accordance with CSA B620-20

TANK OWNER: Big Ster ADDRESS: #5 Boswell TELEPHONE: (403) 793-70				_				1		
									1	
TELEPHONE: (402) 702 7	Cres Brook	cs Alberta T	1R 1B7					10	8. 1111	
ELEPHONE. (403) 793-70	046		SERIAL NO.	: WT0511537	'					
JNIT NO.: 238			MVID/TCRN	N: Z.05.092.02	2.08		III the III			
MANUFACTURER: Weste	ch		ASSEMBLE	R: Westech						
TC SPEC.:407	MATERIAL: 5	SA 36		CERTIFICAT	ION	DATE: 0	8/201	1		
MINIMUM THICKNESS SH	1ELL: 5.36 mr	m	MINUMUN	THICKNESS	HEAD	: 5.26	mm			
MAWP: 25 psi	DESIGN PRE	SSURE:		_						
LINING: YES   SPECIAL SERVICE CONDIT	NO 🗹 TIONS:	INS	SULATED:	YES	NO	V				
COMP. CAPACITY:	1 11652 L		2		3					
	4		5						70	
NSPECTION PERFORMED PRESSURE RELIEF DEVICE		I 🗌 DISCHARGE I	P   PRESSURE:	к 🗆	T		UC		L	
#1) TYPE: Fort Vale	SERIAL NO:	1160125	OPEN PSI:3	0 psi	RES	EAT PS	1: 30 p	si		
REINSTALLED 🗹		REPAIRED		REPLACED						
#2) TYPE:	SERIAL NO:		OPEN PSI:		RES	EAT PS	1:			
MARKET CONTRACTOR										
REINSTALLED		REPAIRED		REPLACED						
REINSTALLED	SERIAL NO:	REPAIRED	OPEN PSI:	REPLACED	RES	EAT PS	il:			
	SERIAL NO:	REPAIRED	OPEN PSI:	REPLACED	ļ		1			
REINSTALLED	SERIAL NO:		OPEN PSI:	REPLACED	ļ	EAT PS	1			
REINSTALLED  #3) TYPE: REINSTALLED  #4) TYPE:	SERIAL NO:		OPEN PSI:		RES	EAT PS	51:			
REINSTALLED  #3) TYPE: REINSTALLED		REPAIRED		REPLACED	RES		51:			

#### **EXTERNAL VISUAL INSPECTION "V"**

Item Inspected	QC Man.Ref.	Complies	Reject	Retest Complies
Data plate, present and legible	12.2.3	×		
Shell & heads; corrosion, dents, overlay patches, leaks, voids, etc.	12.2.4	х		
Structural members, outriggers crossmembers, etc.	12.2.5	х		
Upper coupler for cracks, corrosion, distortion, and bolt tightness	12.2.6	N/A		
Piping and valves for leakage, damage, and corrosion	12.2.7	x		
Valve operating systems, remote closures, and thermal devices	12.2.7	х		
Hoses for defects, identification and test dates	12.2.8	x		
Gaskets on full opening rear heads for damage or cuts	12.2.9	х		
Tank attachments to frame or running gear	12.2.10	х		
Ladders, walkways, platforms, etc.	12.2.11	x		
Fill covers, manways, and closure devices	12.2.12	х		
Relief valves and vents (replace or test if in corrosive lading Service)	12.2.13	х		
Accident damage protection; compliance, damage, distortion, corrosion	12.2.14	x		
Off truck emergency shut down system	12,2.15	х		
Inspector: Dan Laekeman Signature:		Date: Nove	mber 19,	2021

#### INTERNAL VISUAL INSPECTION "I"

Item Inspected		QC Man Ref.	Complies	Reject	Retest Complies
Interior surface for corrosion, dist	ortion, overlay patches, cracking, etc.	12.3.2			
	on perform Wet Fluorescent Magnetic in accordance with Dynamic Industrial 2-16	12.3.3			
interior welds for defects, cracking	g, etc.	12.3.4			
Internal supports and attachment	ts	12.3.5			
Internal valves, piping and vents for leakage, damage, etc.		12.3.5			
Inspector: Signature:			Date:		

# Rejection Criteria for Visual Inspections Any of the following conditions shall cause the tank to be rejected:

Less than minimum material thickness under any cut, dig or gouge

Any dent with depth greater than 1/2" where it includes a weld

Any dent with a depth greater than 10 % of the length of the dent

Any weld defect including a crack, pinhole, or incomplete fusion of the weld

Any structural defect or any source of leakage or any repairs made using overlay patches

Defective, unidentified or out of test hose assemblies

#### HYDROSTATIC LEAKAGE TEST "K"

(QC Manual Reference 12.4)

Test Pressure:

(80% of the MAWP Min.)

Test Medium:

Pressure Gauge Serial No.:

Calibration Date:

Hydrostatic Leakage Test Item		QC Man.Ref.	Complies	Reject	Retest Complies
All product piping, valves, and accessories in place. Breathing vents rendered inoperative.		12.4.2			
Close al internals and open all o	discharge valves.	12.4.5			
Ensure all adjacent compartme atmosphere.	nts and voids are empty and open to	12.4.6			
Fill compartment with enough	test medium to cover valves.	12.4.7			
Pressurize tank to correct press pressure drop).	sure and hold for 5 min. (Must have 0 psi	12.4.8			
While under pressure check tar and vents for leakage.	nk, gaskets, internal valves, manhole covers,	12.4.9			
Close discharge valves and open internal valves. Adjust pressure and check plumbing and discharge valves for leakage.		12.4.10			
Restore operation of all vents.		12.4.12			
Tester:	Signature:		Date:		

HYDROSTATIC PRESSURE TEST "P"

(QC Manual Reference 12.5)

Test Pressure (Tank):

(Refer to Table 7.4 of CSA B620-20 posted in fitting cabinet for appropriate test pressure)

Test Pressure (Piping):

(80% of the MAWP)

Test Medium:

Pressure Gauge Serial No.:

Hydrostatic Pressure Test Item		QC Man Ref.	Complies	Reject	Retest Complies
Level and adequately support the tank.	12.5.1.3				
Remove self closing relief valves for testing.		12.5.1.4			
Remove or render inoperative all other relief dev	ices and close internal valves.	12.5.1.5			
Ensure all remaining closures are rated at or above	ve test pressure.	12.5.1.6			
Ensure adjacent compartments and voids are em	pty and open to atmosphere.	12.5.1.7			
Fill compartment completely with water.		12.5.2.1			
Install pressurization line and slowly increase pre	ssure to test pressure.	12.5.2.2 & 3			
Disconnect pressure source and hold pressure for	10 minutes.	12.5.2.4			
With tank under pressure inspect exterior for lea	ks, defects, or distortion.	12.5.2.5			
Relieve pressure in tank.		12.5.2.6			
Close discharge valves and open internals. Pressurize tank to 80% of the MAWP. Hold for 10 minutes and check plumbing and discharge valves for leaks.		12.5.2.7			
Relieve pressure and drain tank.		12.5.2.9			
Reinstall or return all relief valves to working condition.		12.5.2.10			
Tester:	Signature:		Date:		

#### PNEUMATIC LEAKAGE TEST "K"

(QC Manual Reference 12.4)

Test Pressure:

(80% of the MAWP Min.)

Test Medium:

Pressure Gauge Serial No.:

Calibration Date:

Pneuma	tic Leakage Test Item	QC Man.Ref.	Complies	Reject	Retest Complies
All product piping, valves, and a inoperative.	ccessories in place. Breathing vents rendered	12.4.2			
Close all internals and open all o	discharge valves.	12.4.5			
Ensure all adjacent compartme atmosphere.	nts and voids are empty and open to	12.4.6			
Fill compartment with enough test medium to cover valves.		12.4.7			
Pressurize tank to correct pressure and hold for 5 min. (Must have 0 psi pressure drop).		12.4.8			
While under pressure check tan and vents for leakage.	k, gaskets, internal valves, manhole covers,	12.4.9			
Close discharge valves and open internal valves. Adjust pressure and check plumbing and discharge valves for leakage.		12.4.10			
Releive pressure in tank and restore operation of all vents.		12.4.12			
Tester:	Signature:	Signature:			

NOTE: A pneumatic pressure test, with the concurrence of the tank owner shall only be performed when there is no suspicion of weakness in the tank and residual water in the tank would adversely react with the lading or the tank, or any lading retention component, or result in the formation of ice causing damage to or adversely affecting the functioning of the tank.

PNEUMATIC PRESSURE TEST "P"

(QC Manual Reference 12.5)

Test Pressure (Tank):

(Refer to Table 7.4 of CSA B620-20 posted in fitting cabinet for appropriate test pressure)

Test Pressure (Piping):

(80% of the MAWP)

Test Medium:

Pressure Gauge Serial No.:

ressure dauge serial No.:	Combration Dutc.					
Pneumatic Pressure Test Item	QC Man Ref.	Complies	Reject	Retest Complies		
Level and adequately support the tank.	12.5.1.3					
Remove self closing relief valves for testing.	12.5.1.4					
Remove or render inoperative all other relief devices and close internal valves.	12.5.1.5					
Ensure all remaining closures are rated at or above test pressure.	12.5.1.6					
Ensure adjacent compartments and voids are empty and open to atmosphere.	12.5.1.7					
Advise all personnel that a pneumatic test is being performed and that they must stay clear of the tank being tested.	12.5.3.2					
Apply pressurization line and slowly increase pressure in tank. Pressure to one half the test pressure then increase by 1/10 of test pressure until pressure is reached.	12.5.3.3- 12.5.3.5					
Hold pressure for 10 minutes, then reduce it to the MAWP.	12.5.3.6					
Maintain pressure while using soap and water to coat entire surface of all joints and around all venting and piping.	12.5.3.7					
Relieve pressure in tank, close discharge valves and open internal valves.	12.5.3.8 & 9					
Re pressurize tank to 80 % of the MAWP and hold for 10 min. Soap surface of all joints and connections in the section of plumbing being tested.	12.5.3.10 & 11					
Relieve pressure in tank.	12.5.3.12					
Reinstall or return to working condition all relief devices.	12.5.3.14					
Tester: Signature:		Date:				

THICKNESS TEST "T"

(QC Manual Reference 12.6)

	12:00	2:00	6:00	9:00	1	
	12:00	3:00	6:00	9:00		
					HEAD	FRONT HEAD
1					1	
2					2	
3					3	(
4					4	
5					5	
6					6	
7					7	REAR HEAD
8					8	
9					9	
10					10	$\times$
11					11	
					HEAD	
	12:00	3:00	6:00	9:00		
MA	NWAY	su	MP	NO	ZZLE	NOZZLE
/						
/				$\wedge$		
,	V 1				/	X

Inspector:	Signature:	Date:

Test Medium:

Shell: Shell:

HEATING SYSTEM TEST	(QC Manual Reference 12.10)

Head:

Head:

**Test Pressure** 

Calibration Date: Pressure Gauge Serial No.:

Heating Stsyem Test Inspection Item			Complies	Reject	Retest Complies
Ensure all tank compartments are	12.10.1				
Fill heating system with fluid and pressurize to 1.5 times the heating systems MAWP		12.10.2			
Hold test pressure for 5 min. And	inspect for intenal and external leakage	12.10.3			
If equipped with flues, inspect for product leakage into flues		12.10.4			
Inspector:	Signature:		Date:		

Manufacture's Thickne

Minimum Thickness

UPPER COUPLER INSPECTION UC (QC Manual Reference 12.2.6)

Upper Cou	pler Inspection Item	QC Man.Ref.	Complies	Reject	Retest Complies
Remove Upper Coupler or Turnt	able from unit	12.2.6			
Inspect areas covered by the Upper Coupler or Turntable assembly for corrosion, abrasion, dents, distortion or any other condition that would render the tank unsafe		12.2.6.1			
While removed inspect Upper C wear and kingpin wear.	oupler assembly for cracks, distortion, plate	12.2.6.2			
If equipped, inspect Turntable for wear, distortion and cracks		12.2.6.3			
Install Upper Coupler or Turntable assembly		12.2.6.4			
Inspector:	Signature:	Signature:			

LINING INSPECTION L (QC Manual Reference 12.7.2)

Upper Coupler Inspection Item		Man.Ref.	Complies	Reject	Complies
Inspect rubber liners using a spa instructions	12.7.1.1				
Inspect all linings other that rubber of FRP corrosion barriers according to the lining manufacturers instructions		12.7.2.1			
If lining damage is discovered inspect the tank wall under the damaged lining and thickness test if required.		12.7.3.1			
Inspector:	Signature:	e:			

Description of defect	s found and methods used to repair:				+
TANK DISPOSITION	Removed from service	YES		NO	7
	Safety Mark (Specification Indication) removed	YES		NO	4
	Returned to Service	YES	<b>V</b>	NO	
Tank marking applied	(QC Manual Reference Section 15)	YES	1	NO	



1791 30th St. S.W.

Medicine Hat, AB T1B 3N5

Phone: (403) 527-7272

Fax: (403) 529-6526

Facility Registration No. 25-0709

## Inspection Report in Accordance with CSA B620-20

TEST DATE: May 10,202	1			_					
TANK OWNER: Big Ste	eam Oilfield	Services							
ADDRESS: # 5 Boswe	II Cres Brook	ks Alberta	T1R 1B7						
TELEPHONE: (403) 793-7	7046		SERIAL NO.	: WT0511537	7				
UNIT NO.: 238			MVID/TCRN	v: Z.05.092.0	2.08				
MANUFACTURER: West	ech		ASSEMBLE	R: Westech					
TC SPEC.:407	MATERIAL:	SA 36		CERTIFICAT	ION DATE: 08	3/2011			
MINIMUM THICKNESS S	HELL: 5.36 m	m	MINUMUN	THICKNESS	HEAD: 5.26 m	nm			
MAWP: 25 psi	DESIGN PRE	SSURE:							
LINING: YES SPECIAL SERVICE CONDI	NO 🗸 TIONS:	INS	SULATED:	YES	NO 🗸				
COMP. CAPACITY:	1 11652 L		2		3				
	4		5						
NSPECTION PERFORMED PRESSURE RELIEF DEVICE		I 🗸	P PRESSURE:	K 🗸	T 🗸	UC		L	
#1) TYPE: Fort Vale	SERIAL NO:	1160125	OPEN PSI:3	0 psi	RESEAT PSI:	30 ps	i		
REINSTALLED 🔽		REPAIRED		REPLACED					
#2) TYPE:	SERIAL NO:		OPEN PSI:		RESEAT PSI:				
REINSTALLED		REPAIRED		REPLACED					
#3) TYPE:	SERIAL NO:		OPEN PSI:		RESEAT PSI:				
REINSTALLED _	1	REPAIRED	Ш	REPLACED					
#4) TYPE:	SERIAL NO:		OPEN PSI:	Teres	RESEAT PSI:	_			
REINSTALLED		REPAIRED		REPLACED				_	
#5) TYPE:	SERIAL NO:	т	OPEN PSI:	T	RESEAT PSI:				
REINSTALLED		REPAIRED		REPLACED					
TC 331, MC 331, MC 330 CONSTRUCTED OF QUEN CONSTUCTED OF OTHER TANK STRESS RELIEVED A	NCHED AND T THAN QUEN AFTER MANU AFTER REPAIR	EMPERED ST CHED AND T FACTURE:	TEEL: QT TEMPERED ST			YES YES YES YES		NO NO NO	
TANK STRESS RELIEF AFT			COMPLETE	-	LOCAL:	100000			
RECORD ALL INFORMAT VIN:1NKDX4EX			ND TAKE PHO	OTOS OF DAT	A PLATE AND	UNIT	FOR F	ILE:	

#### **EXTERNAL VISUAL INSPECTION "V"**

Item Inspected	QC Man.Ref.	Complies	Reject	Retest Complies
Data plate, present and legible	12.2.3	x		
Shell & heads; corrosion, dents, overlay patches, leaks, voids, etc.	12.2,4	x		
Structural members, outriggers crossmembers, etc.	12.2.5	Х		
Upper coupler for cracks, corrosion, distortion, and bolt tightness	12.2.6	N/A		
Piping and valves for leakage, damage, and corrosion	12.2.7	Х		
Valve operating systems, remote closures, and thermal devices	12.2.7	Х		
Hoses for defects, identification and test dates	12.2.8	x		
Gaskets on full opening rear heads for damage or cuts	12.2.9	X		
Tank attachments to frame or running gear	12.2.10	х		
Ladders, walkways, platforms, etc.	12.2.11	Х		
Fill covers, manways, and closure devices	12.2.12	х		
Relief valves and vents (replace or test if in corrosive lading Service)	12.2.13	х		
Accident damage protection; compliance, damage, distortion, corrosion	12.2.14	x		
Off truck emergency shut down system	12.2.15	х		
Inspector: Donovan Bellamy Signature:	===	Date: May	10,2021	

#### INTERNAL VISUAL INSPECTION "I"

Item Inspected	QC Man Ref.	Complies	Reject	Retest Complies
Interior surface for corrosion, distortion, overlay patches, cracking, etc.	12.3.2	×		
If required by the tank specification perform Wet Fluorescent Magnetic Particle Inspection and file report in accordance with Dynamic Industrial Solutions Proceedure Number QP-16	12.3.3	х		
interior welds for defects, cracking, etc.	12.3.4	х		
Internal supports and attachments	12.3.5	х		
Internal valves, piping and vents for leakage, damage, etc.	12.3.5	х		
Inspector: Donovan Bellamy Signature:	===	Date: Ma	y 10,2021	

# **Rejection Criteria for Visual Inspections**

Any of the following conditions shall cause the tank to be rejected:

Less than minimum material thickness under any cut, dig or gouge

Any dent with depth greater than 1/2" where it includes a weld

Any dent with a depth greater than 10 % of the length of the dent

Any weld defect including a crack, pinhole, or incomplete fusion of the weld

Any structural defect or any source of leakage or any repairs made using overlay patches

Defective, unidentified or out of test hose assemblies

#### HYDROSTATIC LEAKAGE TEST "K"

(QC Manual Reference 12.4)

Test Pressure: 20 psi Pressure Gauge Serial No.: (80% of the MAWP Min.)

218181D0040

Test Medium: Water

Calibration Date: Feb.3,2021

Hydrostatic Leak	age Test Item	QC Man.Ref.	Complies	Reject	Retest Complies
All product piping, valves, and accessories inoperative.	in place. Breathing vents rendered	12.4.2	х		
Close al internals and open all discharge v	alves.	12.4.5	Х		
Ensure all adjacent compartments and vo atmosphere.	ids are empty and open to	12.4.6	x		
Fill compartment with enough test mediu	m to cover valves.	12.4.7	х		
Pressurize tank to correct pressure and he pressure drop).	old for 5 min. (Must have 0 psi	12.4.8	x		
While under pressure check tank, gaskets and vents for leakage.	, internal valves, manhole covers,	12.4.9	х		
Close discharge valves and open internal plumbing and discharge valves for leakage	12.4.10	х			
Restore operation of all vents.	12.4.12	х			
Tester: Donovan Bellamy Signature:			Date: May 1	10,2021	

### HYDROSTATIC PRESSURE TEST "P"

(QC Manual Reference 12.5)

Test Pressure (Tank): 37.5 psi

## (Refer to Table 7.4 of CSA B620-20 posted in fitting cabinet for appropriate test pressure)

Test Pressure (Piping): 20 psi

(80% of the MAWP)

Test Medium: Water

Pressure Gauge Serial No.:

218181D0040

Calibration Date: Feb.3,2021

Hydrostatic Pressure Test Item	QC Man Ref.	Complies	Reject	Retest Complies
Level and adequately support the tank.	12.5.1.3	х		
Remove self closing relief valves for testing.	12.5.1.4	Х		
Remove or render inoperative all other relief devices and close internal valves.	12.5.1.5	x		
Ensure all remaining closures are rated at or above test pressure.	12.5.1.6	Х		
Ensure adjacent compartments and voids are empty and open to atmosphere.	12.5.1.7	х		
Fill compartment completely with water.	12.5.2.1	X		
Install pressurization line and slowly increase pressure to test pressure.	12.5.2.2 & 3	x		
Disconnect pressure source and hold pressure for 10 minutes.	12.5.2.4	х		
With tank under pressure inspect exterior for leaks, defects, or distortion.	12.5.2.5	x		
Relieve pressure in tank.	12.5.2.6	х		
Close discharge valves and open internals. Pressurize tank to 80% of the MAWP. Hold for 10 minutes and check plumbing and discharge valves for leaks.	12.5.2.7	x		
Relieve pressure and drain tank.	12.5.2.9	х		
Reinstall or return all relief valves to working condition.	12.5.2.10	X		
Tester: Donovan Bellamy Signature:	===	Date: May	10,2021	

#### PNEUMATIC LEAKAGE TEST "K"

(QC Manual Reference 12.4)

Test Pressure:

(80% of the MAWP Min.)

Pressure Gauge Serial No.:

Test Medium: Calibration Date:

Pneumatic	Leakage Test Item	QC Man.Ref.	Complies	Reject	Retest Complies
All product piping, valves, and acce inoperative.	ssories in place. Breathing vents rendered	12.4.2			
Close all internals and open all disc	harge valves.	12.4.5			
Ensure all adjacent compartments atmosphere.	and voids are empty and open to	12.4.6		vi 1	
Fill compartment with enough test	medium to cover valves.	12.4.7			
Pressurize tank to correct pressure pressure drop).	and hold for 5 min. (Must have 0 psi	12.4.8			
While under pressure check tank, g and vents for leakage.	12.4.9				
Close discharge valves and open in plumbing and discharge valves for	12.4.10				
Releive pressure in tank and restor	12.4.12				
Tester:	Signature:		Date:		

NOTE: A pneumatic pressure test, with the concurrence of the tank owner shall only be performed when there is no suspicion of weakness in the tank and residual water in the tank would adversely react with the lading or the tank, or any lading retention component, or result in the formation of ice causing damage to or adversely affecting the functioning of the tank.

PNEUMATIC PRESSURE TEST "P"

(QC Manual Reference 12.5)

Test Pressure (Tank):

(Refer to Table 7.4 of CSA B620-20 posted in fitting cabinet for appropriate test pressure)

Test Pressure (Piping):

(80% of the MAWP)

Test Medium:

Pressure Gauge Serial No.:

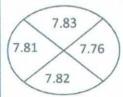
Pneumatic Pressure	QC Man Ref.	Complies	Reject	Retest Complies	
Level and adequately support the tank.		12.5.1.3			
Remove self closing relief valves for testing.		12.5.1.4			
Remove or render inoperative all other relief of	levices and close internal valves.	12.5.1.5			
Ensure all remaining closures are rated at or a	bove test pressure.	12.5.1.6			
Ensure adjacent compartments and voids are	empty and open to atmosphere.	12.5.1.7			
Advise all personnel that a pneumatic test is b must stay clear of the tank being tested.	eing performed and that they	12.5.3.2			
Apply pressurization line and slowly increase phalf the test pressure then increase by 1/10 of reached.		12.5.3.3- 12.5.3.5			
Hold pressure for 10 minutes, then reduce it to	the MAWP,	12.5.3.6			
Maintain pressure while using soap and water joints and around all venting and piping.	to coat entire surface of all	12.5.3.7			
Relieve pressure in tank, close discharge valve	s and open internal valves.	12.5.3.8 & 9			
Re pressurize tank to 80 % of the MAWP and hall joints and connections in the section of plui	12.5.3.10 & 11				
Relieve pressure in tank.	12.5.3.12				
Reinstall or return to working condition all reli	ef devices.	12.5.3.14			
Tester:	Signature:		Date:		

THICKNESS TEST "T"

(QC Manual Reference 12.6)

	12:00	3:00	6:00	9:00			
					HEAD		
1	7.86	7.84	7.87	7.84	1		
2	7.87	7.81	7.84	7.85	2		
3	7.84	7.77	7.78	7.78	3		
4	7.75	7.86	7.76	7.76	4		
5	7.76	7.79	7.81	7.79	5		
6	7.85	7.81	7.85	7.81	6		
7	7.78	7.76	7.89	7.89	7		
8	7.86	7.79	7.78	7.77	8		
9	7.81	7.76	7.89	7.84	9		
10	7.84	7.81	7.77	7.84	10		
11	7.79	7.84	7.79	7.79	11		
					HEAD		
	12:00	3:00	6:00	9:00			





#### **REAR HEAD**

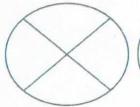


MANWAY

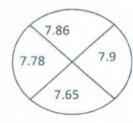
#### NOZZLE#1

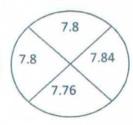
NOZZLE#2

NOZZLE#3









Manufacture's Thickne

Head:

7.94

Shell:

7.94

Minimum Thickness

Head:

5.26

Shell:

5.36

Inspector: Donovan Bellamy

Signature:

Date: May 10,2021

**HEATING SYSTEM TEST** 

(QC Manual Reference 12.10)

Test Pressure

Test Medium:

Pressure Gauge Serial No.:

Heating Stsy	em Test Inspection Item	QC Man.Ref.	Complies	Reject	Retest Complies
	are empty and at atmospheric pressure	12.10.1			
Fill heating system with fluid ar MAWP	12.10.2				
Hold test pressure for 5 min. A	12.10.3				
If equipped with flues, inspect	12.10.4				
Inspector:	Signature:		Date:		

UPPER COUPLER INSPECTION UC (QC Manual Reference 12.2.6)

Upper Cou	pler Inspection Item	QC Man.Ref.	Complies	Reject	Retest Complies
Remove Upper Coupler or Turnt	able from unit	12.2.6			
Inspect areas covered by the Up corrosion, abrasion, dents, disto the tank unsafe	12.2.6.1				
While removed inspect Upper Co wear and kingpin wear.	oupler assembly for cracks, distortion, plate	12.2.6.2	1 1 1		
If equipped, inspect Turntable fo	12.2.6.3				
Install Upper Coupler or Turntable assembly		12.2.6.4			
Inspector:	Signature:		Date:		

LINING INSPECTION L (QC Manual Reference 12.7.2)

Upper Cou	oler Inspection Item	Man.Ref.	Complies	Reject	Complies
Inspect rubber liners using a spar instructions	12.7.1.1				
Inspect all linings other that rubb lining manufacturers instructions	12.7.2.1				
If lining damage is discovered ins and thickness test if required.	12.7.3.1				
Inspector:	Signature:		Date:		

Description of defect	s found and methods used to repair:					
TANK DISPOSITION	Removed from service	YES		NO	$\checkmark$	
	Safety Mark (Specification Indication) removed	YES		NO	1	
	Returned to Service	YES	1	NO		
Tank marking applied	(QC Manual Reference Section 15)	YES	1	NO		

### SUMMARY OF REPAIRS AND MAINTENANCE

**UNIT: 238** 

- MAY 2022 TANK INSPECTION DYNAMIC INDUSTRIAL
- APR 2022 ISX 15 EMISSION OFF TUNING D/C HEAVY DUTY MECHANIC INV 2976
- APR 2022 BELT AND YOKE SUMMIT MOTORS INV 03P18396
- JAN 2022 CARRIER 4 SUMMIT MOTORS INV 03P15943
- APR 2022 4 NEW TIRES KIRKS TIRE INV B163072
- SEPT 2021 PTO AND PUMP SHAFTS HOPF MECHANICAL INV 17462
- SEPT 2021 NEW CLUTCH SUMMIT MOTORS INV 03P13183
- AUG 2021 ALIGNMENT CROSSTOWN TRUCK INV BKS-115422
- AUG 2021 HYDRAULIC LEAK REPAIR HOPF MECHANICAL INV 17209
- JULY 2021 REPAIR A/C SUMMIT MOTORS INV 03W1919
- APR 2021 NEW WINDSHIELD BROOKS CAR CARE INV 01-26878
- APR 2021 SHOCKS AND SEALS SUMMIT MOTORS INV 03P9652
- JAN 2021 NEW RADIATOR SUMMIT MOTORS INV 03P7449
- SEPT 2019 NEW AIR BAG AND SHOCK FRONT RIGHT SIDE SUMMIT MOTORS INV B165331





#### **CERTIFICATE NUMBER**

# Commercial Vehicle Inspection Certificate Traffic Safety Act

# PART 1 - VEHICLE OWNER AND VEHICLE IDENTIFICATION

Vehicle Ty	pe:	Truck			Seatir	g Capac	ity:				
GVW:		60000 kg		Brake	e Type: Air						
Owner Nar	ne:	Big Ste	eam Oilfie	Oilfield Services Ltd							
Address:	Ро	Box 789					2				
City:	Bro	oks			Province: AB		Postal Code:	T1R1B7			
Telephone	Num	ber:	(403) 5	01-533	55						
Vehicle Ide	ntific	ation Nu	ımber:		1NKDX4E	X3CR94	9163				
Make:	: Kenworth					ı	Model: Construct				
Year:	ear: 2012			U	Jnit Number:	238					
Odometer:	13	333681 K	CM	Lice	ence Plate Number:		K38949	Provinc	e: AB		

### IT IS AN OFFENCE TO FALSIFY AN INSPECTION CERTIFICATE

#### **PART 2 - CERTIFICATION**

I certify the vehicle described in Part 1 has passed the inspections and tests established under the Traffic Safety Act for a Commercial Vehicle.

Inspection Facility Name:		Facility Number:
Big Steam Oilfield Services I	_td.	15339
Inspection Technician Name		Technician Number:
Pedro Reimer		B8398
Inspection Technician Signa	ture:	1 5/1/2
Inspection Date:	2022/04/06	



1791 30th St. S.W. Medicine Hat, AB T1B 3N5 Phone: (403) 527-7272

Fax: (403) 529-6526

Facility Registration No. 25-0709

# Inspection Report in Accordance with CSA B620-20

TELEPHONE: (403) 79 UNIT NO.: 238	2.7046		T1R 1B7		_		_		
UNIT NO.: 238	3-7046			).: WT051153					
	about .			N: Z.05.092.0	2.08				
MANUFACTURER: WE		04.00	ASSEMBLE	R: Westech					
TC SPEC.:407	MATERIAL			CERTIFICA			1		
MINIMUM THICKNESS			MINUMUN	VI THICKNESS	HEAD: 5.	26 mm			
MAWP: 25 psi LINING: YES	DESIGN PR								
SPECIAL SERVICE CON	NO 🗸	IN	SULATED:	YES	NO 🛂	]			
COMP. CAPACITY:	1 11652 L		2		3				
	4		5					_	
NSPECTION PERFORM PRESSURE RELIEF DEV		I 🗸	P  PRESSURE:	K 🗸	т	UC		L	
#1) TYPE: Fort Vale	SERIAL NO:	1160125	OPEN PSI:3	0 psi	RESEAT	PSI: 30 p	si		
REINSTALLED 🗹	,	REPAIRED		REPLACED					
#2) TYPE:	SERIAL NO:		OPEN PSI:		RESEAT	PSI:			
REINSTALLED		REPAIRED		REPLACED					
HOLTVDE.	SERIAL NO:		OPEN PSI:		RESEAT	PSI:			
		REPAIRED		REPLACED					
REINSTALLED		17.00.7.01.00	The state of the s			The second name of the second			
REINSTALLED  #4) TYPE:	SERIAL NO:	_	OPEN PSI:		RESEAT	PSI:			
REINSTALLED		REPAIRED	OPEN PSI:	REPLACED	RESEAT	PSI:			
#3) TYPE: REINSTALLED #4) TYPE: REINSTALLED #5) TYPE: REINSTALLED #5	SERIAL NO:	REPAIRED	OPEN PSI: OPEN PSI:	REPLACED	RESEAT RESEAT				

#### **EXTERNAL VISUAL INSPECTION "V"**

Item Inspected	QC Man.Ref.	Complies	Reject	Retest Compiles
Data plate, present and legible	12.2.3	x		
Shell & heads; corrosion, dents, overlay patches, leaks, voids, etc.	12,2,4	х		
Structural members, outriggers crossmembers, etc.	12.2.5	Х		
Upper coupler for cracks, corrosion, distortion, and bolt tightness	12.2.6	N/A		
Piping and valves for leakage, damage, and corrosion	12.2.7	x		
Valve operating systems, remote closures, and thermal devices	12.2.7	х		
Hoses for defects, identification and test dates	12.2.8	х		
Gaskets on full opening rear heads for damage or cuts	12.2.9	Х		
Tank attachments to frame or running gear	12.2.10	Х		
Ladders, walkways, platforms, etc.	12.2.11	х		
Fill covers, manways, and closure devices	12.2.12	х		
Relief valves and vents (replace or test if in corrosive lading Service)	12.2.13	Х		
Accident damage protection; compliance, damage, distortion, corrosion	12.2.14	x		
Off truck emergency shut down system	12.2.15	х		
Inspector: Dan Laekeman Signature:		Date: May	31, 2022	

#### INTERNAL VISUAL INSPECTION "I"

Item Inspected	QC Man Ref.	Complies	Reject	Retest Complies
Interior surface for corrosion, distortion, overlay patches, cracking, etc.	12.3.2	x		
If required by the tank specification perform Wet Fluorescent Magnetic Particle Inspection and file report in accordance with Dynamic Industrial Solutions Proceedure Number QP-16	12.3.3	х		
interior welds for defects, cracking, etc.	12.3.4	х		
Internal supports and attachments	12.3,5	х		
Internal valves, piping and vents for leakage, damage, etc.	12.3.5	. х		
Inspector: Dan Laekeman Signature:		Date: Ma	y 31, 2022	

### **Rejection Criteria for Visual Inspections**

Any of the following conditions shall cause the tank to be rejected:

Less than minimum material thickness under any cut, dig or gouge

Any dent with depth greater than 1/2" where it includes a weld

Any dent with a depth greater than 10 % of the length of the dent

Any weld defect including a crack, pinhole, or incomplete fusion of the weld

Any structural defect or any source of leakage or any repairs made using overlay patches

Defective, unidentified or out of test hose assemblies

#### HYDROSTATIC LEAKAGE TEST "K"

(QC Manual Reference 12.4)

Test Pressure: 20 psi

(80% of the MAWP Min.)

Test Medium: Water

Pressure Gauge Serial No.:

21821460039 Calibration Date: Jan. 13, 2023

Hydrostatic Leakage Test Item	QC Man.Ref.	Compiles	Reject	Retest Complies
All product piping, valves, and accessories in place. Breathing vents rendered inoperative.	12.4.2	х		
Close al internals and open all discharge valves.	12.4.5	х		
Ensure all adjacent compartments and volds are empty and open to atmosphere.	12.4.6	x		
Fill compartment with enough test medium to cover valves.	12.4.7	х		
Pressurize tank to correct pressure and hold for 5 min. (Must have 0 psi pressure drop).	12.4.8	х		
While under pressure check tank, gaskets, internal valves, manhole covers, and vents for leakage.	12,4.9	х		
Close discharge valves and open internal valves. Adjust pressure and check plumbing and discharge valves for leakage.	12.4.10	х		
Restore operation of all vents.	12.4.12	Х		
Tester: Dan Laekeman Signature:		Date: May 3	31, 2022	

HYDROSTATIC PRESSURE TEST "P"

(QC Manual Reference 12.5)

Test Pressure (Tank):

(Refer to Table 7.4 of CSA B620-20 posted in fitting cabinet for appropriate test pressure)

Test Pressure (Piping):

(80% of the MAWP)

Test Medium:

Pressure Gauge Serial No.:

riessure Gauge Serial No.					
Hydrostatic Pressure	Test Item	QC Man Ref.	Complies	Reject	Retest Compiles
Level and adequately support the tank.		12.5.1.3			
Remove self closing relief valves for testing.		12.5.1.4			
Remove or render inoperative all other relief d	evices and close internal valves.	12.5.1.5			
Ensure all remaining closures are rated at or at	oove test pressure.	12.5.1.6			
Ensure adjacent compartments and voids are o	empty and open to atmosphere.	12.5.1.7			
Fill compartment completely with water.		12.5.2.1			
Install pressurization line and slowly increase p	ressure to test pressure.	12.5.2.2 & 3			1
Disconnect pressure source and hold pressure	for 10 minutes.	12.5.2.4			
With tank under pressure Inspect exterior for I	eaks, defects, or distortion.	12.5.2.5			
Relieve pressure in tank.		12.5.2.6			
Close discharge valves and open internals. Pressurize tank to 80% of the MAWP. Hold for 10 minutes and check plumbing and discharge valves for leaks.		12.5.2.7		4	
Relieve pressure and drain tank.		12.5.2.9			
Reinstall or return all relief valves to working o	ondition.	12.5.2.10			
Tester:	Signature:		Date:		

#### PNEUMATIC LEAKAGE TEST "K"

(QC Manual Reference 12.4)

Test Pressure:

(80% of the MAWP Min.)

Test Medium:

Pressure Gauge Serial No.:		Calibration Date:				
Pneumatic L	eakage Test Item	QC Man.Ref.	Complies	Reject	Retest Complies	
All product piping, valves, and accessories in place. Breathing vents rendered inoperative.		12.4.2				
Close all internals and open all discha-	arge valves.	12.4.5				
Ensure all adjacent compartments ar atmosphere.	nd voids are empty and open to	12.4.6				
Fill compartment with enough test m	nedium to cover valves.	12.4.7				
Pressurize tank to correct pressure a pressure drop).	nd hold for 5 min. (Must have 0 psi	12.4.8				
While under pressure check tank, gaskets, internal valves, manhole covers, and vents for leakage.		12.4.9				
Close discharge valves and open internal valves. Adjust pressure and check plumbing and discharge valves for leakage.		12.4.10				
Releive pressure in tank and restore operation of all vents.		12.4.12				
Tester:	Signature:		Date:		-	

NOTE: A pneumatic pressure test, with the concurrence of the tank owner shall only be performed when there is no suspicion of weakness in the tank and residual water in the tank would adversely react with the lading or the tank, or any lading retention component, or result in the formation of ice causing damage to or adversely affecting the functioning of the tank.

PNEUMATIC PRESSURE TEST "P"

(QC Manual Reference 12.5)

Test Pressure (Tank):

(Refer to Table 7.4 of CSA B620-20 posted in fitting cabinet for appropriate test pressure)

Test Pressure (Piping):

(80% of the MAWP)

Test Medium:

Pressure Gauge Serial No.:

riessure Gauge Serial No		Campration Date.				
est Item	QC Man Ref.	Complies	Reject	Retest Complies		
	12.5.1.3					
	12.5.1.4					
evices and close internal valves.	12.5.1.5					
ove test pressure.	12.5.1.6					
mpty and open to atmosphere.	12.5.1.7					
ing performed and that they	12.5.3.2					
Apply pressurization line and slowly increase pressure in tank. Pressure to one half the test pressure then increase by 1/10 of test pressure until pressure is reached.						
the MAWP.	12.5.3.6					
o coat entire surface of all	12.5.3.7					
and open internal valves.	12.5.3.8 & 9					
Re pressurize tank to 80 % of the MAWP and hold for 10 min. Soap surface of all joints and connections in the section of plumbing being tested.						
	12.5.3.12					
f devices.	12.5.3.14					
Signature:	127	Date:				
	the MAWP. to coat entire surface of all and open internal valves.  old for 10 min. Soap surface of all bing being tested.	rest Item  Ref.  12.5.1.3  12.5.1.4  22.5.1.5  22.5.1.6  23.5  24.5.1.5  25.1.6  25.1.6  26.5  26.5  27.5  28.5  29.5  20.5  2	Pest Item  QC Man Ref.  12.5.1.3  12.5.1.4  22.5.1.4  22.5.1.5  22.5.1.6  23.5  24.5.1.6  25.5.1.6  25.5.1.6  26.5  26.5  27.5  27.5  28.5  29.5	Pest Item  Ref.  12.5.1.3  12.5.1.4  22.5.1.5  22.5.1.6  22.5.1.6  23.5.1.6  24.5.1.7  25.1.7  25.1.8  26.1.7  26.1.8  27.5.1.8  28.1.8  29.1.8  29.1.8  29.1.8  29.1.8  29.1.8  29.1.8  29.1.8  29.1.8  29.1.8  20.1.		

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Ainimum  Ainspector:  HEATING  Test Pressure Good  The stress of the str	ure's Thicknes Thickness  SYSTEM TES Ire auge Serial No	Head:  T (QC)  D.:  em Test In  are empty and	Manual Refe	Shell: Shell: erence 12.10	QC Man.Ref. 12.10.1	Test Medium: Calibration Date:		
Minimum  Inspector:  HEATING  Test Pressure Good  Pressure Good  Insure all tan  Ill heating sy  MAWP	system tes re auge Serial No eating Stsyd k compartments stern with fluid an	Head:  T (QC)  D.:  em Test In  are empty and and pressurize to	Manual Refe	Shell: Shell: Shell: erence 12.10	QC Man.Ref.	Test Medium: Calibration Date:		
Minimum  Inspector:  HEATING  Test Pressure Good  Pressure all tan  Ill heating sy  MAWP  Hold test pressure	system tes  auge Serial No eating Stsyc k compartments	Head:  T (QC)  are empty and and pressurize to	Manual Reference of 1.5 times the house the natural and exterence of the n	Shell: Shell: Shell: erence 12.10	QC Man.Ref. 12.10.1	Test Medium: Calibration Date:		

Inspector:

Signature:

Date:

UPPER COUPLER INSPECTION UC (QC Manual Reference 12.2.6)

Upper Coupler Inspection Item		QC Man.Ref.	Complies	Reject	Retest Complies
Remove Upper Coupler or Turns	table from unit	12.2.6			
Inspect areas covered by the Upper Coupler or Turntable assembby for corrosion, abrasion, dents, distortion or any other condition that would render the tank unsafe		12.2.6.1			
While removed inspect Upper C wear and kingpin wear.	oupler assembly for cracks, distortion, plate	12.2.6.2			
If equipped, inspect Turntable for wear, distortion and cracks		12.2.6.3			
Install Upper Coupler or Turntable assembly		12.2.6.4			
Inspector:	Signature:		Date:		

LINING INSPECTION L (QC Manual Reference 12.7.2)

Upper Coupler Inspection Item		Man.Ref.	Complies	Reject	Complies
Inspect rubber liners using a spark tester and following manufacurers instructions		12.7.1.1			
Inspect all linings other that rubl lining manufacturers instruction	per of FRP corrosion barriers according to the	12.7.2.1			
If lining damage is discovered inspect the tank wall under the damaged lining and thickness test if required.		12.7.3.1			
Inspector:	Signature:		Date:		

Description of defect	s found and methods used to repair:					
TANK DISPOSITION	Removed from service	YES		NO	7	
	Safety Mark (Specification Indication) removed	YES		NO	V	
	Returned to Service	YES	4	NO	$\Box$	
Tank marking applied	(QC Manual Reference Section 15)	YES	7	NO		