



CERTIFICATE NUMBER

Commercial Vehicle Inspection Certificate Traffic Safety Act

PART 1 - VEHICLE OWNER AND VEHICLE IDENTIFICATION

Vehicle Typ	e:	Truck			Seating	д Сар	acity:					
GVW:		36600 k	g		Brake '	Type:	Thie	Air		إسبار		
Owner Nam	ne:	Big Stea	am Oilfiel	d Service	s Ltd			Talling				Willian
Address:	Po	Box 789										
City:	bro	oks		Pro	vince:	AB			Posta	al Code:	T1R	1B7
Telephone	Num	ber:	(403) 50	1-5335						THE REAL PROPERTY.		
Vehicle Ide	ntific	ation Nu	mber:	5	KKUALD'	10EPF	Y541	0				
Make:	1	Western S	Star				Mod	el: WB123	1065			
Year:	2	2014					Unit	Number:	Tita	308		
Odometer:	4	10381 KM		Licence	e Plate Nu	ımber	: K	(00768		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 Signa	ature:	
Inspection Date:	2022/07/12	All



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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ehicl	e Info	rmatio	on				AND LOCAL DESIGNATION OF			AND THE RES				0000	ng		
/IN	5	K	K	U	A	L	D	1	0	E	P	F	Y	5	4	1	(
	Numb	er		Year 2014		V	Mai /estern				Mod WB12	500		Odometer 40,381			
					Reg	gistered	Owner	's Name							Plate	Number	r
					Big St	team Oil	field Se	rvices L	.td							0768	
					Address							Postal	Code			one Nur	nho.
					Box 7							T1R1				3) 501-5	
	Orum B	rakes:	C-Li	nited Ins	pection				Disc	Brakes:							
			11 11			LEFT		FR	ONT		RIGH'	Т)			
		11	00 psi			n/a	in		s/Rotors			n/a in		-			
			17 in			3/4	in	Lining	gs/Pads		3	3/4 in		10	0 psi		
						1	in	Push R	od Trave	1		1 in		1	7 in		
	n/a ps	11	00 psi			n/a	in	Drums	/Rotors			n/a in					1
	n/a in		17 in			3/4	in	Linings/Pads		3	3/4 in		-	psi	n/a p		
_		<u> </u>		_		1	in	Push R	od Trave	ı		1 in		17	7 in	n/a in	
_						n/a	in	Drums	/Rotors			ı/a in					
_	00 ps	1 1	00 psi			3/4	in		gs/Pads			/a in		100	psi	100 ps	si
_	18 in	人	18 in			1	in		od Travel			1 in		18	in	18 in	
1	00 ps	10	00 psi			The Control of the Co	in	Drums	s/Rotors		n	/a in		100	psi	100 ps	
_	18 in	-	18 in				in	Lining	gs/Pads		3	/4 in		-	in		"
		<u> </u>		L		1	in	Push R	od Travel			1 in		10	<u>"</u> \	18 in)
		·	00	NA P		n/a	in	Drums	/Rotors		n	/a in					
	00 ps	-	00 psi			3/4	in	Lining	s/Pads		3	4 in		100	-	100 ps	
-	18 in	人_	18 in			1	in	Push Ro	od Travel			1 in		18	in	18 in	
		~					in	Drums	/Rotors	Harry -		in					
	ps	-	psi				in	Lining	s/Pads			in			psi	psi	
-	in	人	in				in	Push R	od Travel			in		_	in	in	
				Park P	rake Lini	ng Le	ft -/-	100		4-		170					
						Checke		in F		i/a in	Trans	n/a /a ft	in Ibs				

COMMERCIAL VEHICLE RECORD OF INSPECTION TRUCK AND TRUCK-TRACTOR

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

	Sec	tio	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	1		
5.7. Windshield Wiper/Washer	1						

NOTES:

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

NOTES:

	Section	7 -	Elec	trical System		M	1000
Component	P	F	NA	Component	Р	F	NA
7.1. Wiring	1			7.3. Trailer Cord (output to towed vehicle)	1		
7.2. Battery	1						

NOTES:

	S	ecti	on 8	- Body			
Component	P	F	NA	Component	P	F	NA
8.1. Hood or Engine Enclosure	1			8.12. Bumper	1		
8.2. Tilt Cab	1			8.13. Windshield	1		
8.3. Air-Suspended Cab	1			8.14. Side Windows	1		
8.4. Cab and Passenger-Vehicle Body	1			8.15. Rear Window	1		
8.5. Cargo Body	1			8.16. Interior Sun Visor	1		TV
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	1		
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		

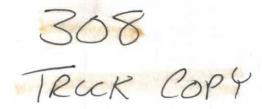


12/11/2020

Customer Name: BIG STEAM OILFIELD SERVICES LTD

Ship To Address: BOX 789 BROOKS AB

Job Number: 1104204802-I Job Description: STEAM TRUCK Job Date: November 4, 2020



Total Inspected Assets: 51

1307VAS094-3

Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
(419951X		November 4, 2020	308	Level 1	Pass		
Description: Adapt	ter ,2" x 6" ,Integr	al ,3" 1502 M × 2" 15	02 F ,STD ,SPM	,3L11580 ,15000 C	ΝP	<u> المتناطل وال</u>	
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
1307IAS123-5		November 4, 2020	308	Level 1	Pass		
Description: Check	« Valve ,2" ,Flappe	r Reverse Flow ,2" 15	02 M × 2" 1502	F ,STD ,SPM ,2A290	024 ,15000	CWP	LEHERRAN
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
1304VAS271-5		November 4, 2020	308	Level 2	Pass	REUSED	CUSTOMER KIT
Description: Elbow	,2" ,Short Radius	Compact ,90° ,2" 15	02 M x 2" 1502	F ,STD ,SPM ,3L132	34 ,15000 (CWP	
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit#	Tracking #
1312IBG027-3		November 4, 2020	308	Level 1	Pass		
Description: Mud l	Line Hose ,1" x All	Lengths ,1" 1502 M >	(2" 1502 F ,STE	RELIANCE ,GH493	3-16 ,6000 (CWP	
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
06291728BS01		November 4, 2020	308	Level 1	Pass		
Description: Plug \	/alve ,1" ,LOTORC	,2" 1502 M × 2" 1502	2 F ,STD ,KEM ,	1PV722MFRAB ,1500	00 CWP		
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
11052048P001		November 4, 2020	308	Level 1	Pass		
Description: Plug \	Valve ,1" ,SP150W	U ,2" 1502 M x 2" 150	02 F ,STD ,SPM	,1A14483 ,15000 C	NΡ		
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
1308VAS163-4		November 4, 2020	308	Level 1	Pass		
1406VAS009-3		November 4, 2020	308	Level 1	Pass		
Description: Plug \	Valve ,2" ,LT Supe	"2, Seal w/ Operator	1502 M x 2" 15	97, FloV ,FV, FloV ,PV	152FMA-SS	,15000 CWP	
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit#	Tracking #
2V-3463		November 4, 2020	308	Level 1	Pass		
Description: Plug \	Valve ,2" ,SP150W	U ,2" 1502 M × 2" 150	02 F ,STD ,SPM	,1A14487 ,15000 C	NΡ		
	Consul Contail	Service Date	New Unit	Service Level	Status	Kit #	Tracking #

November 4, 2020

308

Level 1

Pass



12/11/2020

Customer Name: BIG STEAM OILFIELD SERVICES LTD

Ship To Address: BOX 789 BROOKS AB

Job Number: 1104204802-I
Job Description: STEAM TRUCK
Job Date: November 4, 2020

Description: Press	ure Relief Valve ,2	4.7° 2, Adjustable, "	2 M x 2" LPT F ,	STD ,BAI ,992-9902	-2-SHP ,150	000 CWP	
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit#	Tracking #
102285-1		November 4, 2020	308	Level 2	Pass	REUSED	CUSTOMER KIT
118252-3		November 4, 2020	308	NISD	Pass	The state of the s	

Description: Pump Dis	"2, "2, charge Flange	1502 M x 2" 1	5K FLG ,STD ,S	FCS00021 ,150	00 CWP		
Serial Number Se	cond Serial Serv	ice Date	New Unit	Service Level	Status	Kit #	Tracking #
05011528BS03	Novem	ber 4, 2020	308	Level 1	Pass		
05011528BS04	Novem	ber 4, 2020	308	Level 1	Pass		

Covini Number Consul Covini						
Serial Number Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
05011528BS05	November 4, 2020	308	Level 1	Pass		

Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
6135472ED-1		November 4, 2020	308	Level 1	Pass		
6135472ED-10		November 4, 2020	308	Level 1	Pass		
6135472ED-12		November 4, 2020	308	Level 1	Pass		
6135472ED-13		November 4, 2020	308	Level 1	Pass		
6135472ED-17		November 4, 2020	308	Level 1	Pass		
6135472ED-18		November 4, 2020	308	Level 1	Pass		
6135472ED-2		November 4, 2020	308	Level 1	Pass		
6135472ED-3		November 4, 2020	308	Level 1	Pass		
6135472ED-5		November 4, 2020	308	Level 1	Pass		
6135472ED-6		November 4, 2020	308	Level 1	Pass		
6135472ED-7		November 4, 2020	308	Level 1	Pass		
6135472ED-9		November 4, 2020	308	Level 1	Pass		
6136060ED-12		November 4, 2020	308	Level 1	Pass		
6136060ED-20		November 4, 2020	308	Level 1	Pass	1	

Description: Straight Joint ,2" x 24" ,NPST Det/Nut ,2" 1502 M x 2" 1502 F ,STD ,SPM ,2A23281 ,15000 CWP ,2.38" OD									
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #		
6135473ED-7		November 4, 2020	308	Level 1	Pass				



12/11/2020

Customer Name: BIG STEAM OILFIELD SERVICES LTD

Ship To Address: BOX 789 BROOKS AB

Job Number: 1104204802-I Job Description: STEAM TRUCK Job Date: November 4, 2020

Description: Straig	"2" x 60 pht Joint ,2" x	,NPST Det/Nut ,2" 15	502 M x 2" 1502	F ,STD ,SPM ,2A23	385 ,15000	CWP ,2.375" OI	D
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
05011528BS06		November 4, 2020	308	Level 1	Pass		
6133433ED-2		November 4, 2020	308	Level 1	Pass		
6135392ED-5		November 4, 2020	308	Level 1	Pass		
6136137ED-17		November 4, 2020	308	Level 1	Pass		
6136137ED-20		November 4, 2020	308	Level 1	Pass		
Description: Swive	el ,2" ,LR S10 ,2" 1	502 M x 2" 1502 F ,S	TD ,SPM ,2A171	.35 ,15000 CWP		THE REAL PROPERTY.	State of the last
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
05011528BS01		November 4, 2020	308	Level 1	Pass		
Description: Swive	el ,2" ,LR S50 ,2" 1	502 M x 2" 1502 F ,S	TD ,SPM ,2A171	.39 ,15000 CWP			
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
05011528BS02		November 4, 2020	308	Level 1	Pass		
1207HAS147-9		November 4, 2020	308	Level 1	Pass		
1402HAS050-3		November 4, 2020	308	Level 1	Pass		
1402HAS050-4		November 4, 2020	308	Level 2	Pass	END2SJURK:	1Q24
1411HAS573-2		November 4, 2020	308	Level 1	Pass		-
1411HAS573-6		November 4, 2020	308	Level 1	Pass		
Description: Swive	1,2" ,LS S50 ,2" 15	502 M x 2" 1502 F ,S	TD ,FMC ,31394	75 ,15000 CWP			-
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
08150A10120		November 4, 2020	308	Level 1	Pass		
081510A10124		November 4, 2020	308	Level 1	Pass		
Description: Swive	1502 "2, S50 ,2" 1502	M x 2" 1502 F ,STD	BES ,53310005,	,15000 CWP		NAME OF TAXABLE	CRAW III
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
IL458-1		November 4, 2020	308	Level 1	Pass		
Description: Tee ,2	2" ,2" 1502 M × 2"	1502 F x 2" 1502 F ,	STD ,TSI ,FF-423	3-1 ,15000 CWP			W/W/ 10
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
.735-193		November 4, 2020	308	Level 1	Pass		
Description: Tee ,2	",2" 1502 M x 2"	1502 F × 2" 1502 M ,	STD ,FloV ,T152	MFMA ,15000 CWP		9811	100
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
51137-D							



12/11/2020

Customer Name: BIG STEAM OILFIELD SERVICES LTD

Ship To Address: BOX 789 BROOKS AB

Job Number: 1104204802-I Job Description: STEAM TRUCK Job Date: November 4, 2020

Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
460988		November 4, 2020	308	Level 1	Pass		
Description: Tee ,:	2" ,Integral ,2" 15	02 M x 2" 1502 F x 2'	', STD , stD ,	SPM ,3L13230 ,1500	0 CWP		
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
1309IB9110-2		November 4, 2020	308	Level 1	Pass		
Description: Wye ,	2" ,2" 1502 M × 2'	' 1502 F x 2" 1502 F	STD ,Anson ,10	01677 ,15000 CWP		BATT.	7-3 B W
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
394466		November 4, 2020	308	Level 1	Pass		
Description: Wye ,	2" ,2" 1502 M × 2'	' 1502 F x 2" 1502 F	STD ,SPM ,3L1	3139 ,15000 CWP		Fall Na	
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #



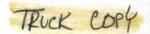
08/11/2019

Customer Name: BIG STEAM OILFIELD SERVICES LTD

Ship To Address: BOX 789 BROOKS AB

Job Number: 1106194801-I Job Description: STEAM TRUCK Job Date: November 6, 2019

Total Inspected Assets: 53



Serial Number	Second Serial	Service Date	New Unit	Carrier I and	G1-1	Win 44	
K516673STD	Second Senai	, , , , , , , , , , , , , , , , , , , ,		Service Level	Status	Kit #	Tracking #
K31007331D		November 6, 2019	308	Level 1	Pass		
Description: Adap	Integr, 2" x 6" ,Integr	al ,3" 1502 M x 2" 15	502 F ,STD ,SPM	,3L11580 ,15000 C	WP	HARRIE PA	BOTTOM TO
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
1307IAS123-5		November 6, 2019	308	Level 1	Pass	Line	
Description: Adap	ter ,2" x 7" ,2" 150	2 M × 2" 1502 M ,ST	D ,KEM ,1502M	X2MA ,15000 CWP			
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
K467587STD		November 6, 2019	308	Level 1	Pass		
Description: Adapt	er ,2" x 7" ,Integr	al ,2" 1502 F x 2" 150	02 F .STD .KEM	.1502FX2FA .15000	CWP		
	Second Serial		New Unit	Service Level	Status	Kit #	Tracking #
K469410STD		November 6, 2019	308	Level 1	Pass		
Description: Adapt	er 7" v 7" Intogr	al ,2" 1502 M x 2" 15	OD E SED VEM	150341/354 15007	CUD		
	Second Serial						
387667X	Second Serial	November 6, 2019	New Unit	Service Level Level 1	Status Pass	Kit #	Tracking #
		November 0, 2015	300	Level 1	Pass		
Description: Check	Valve ,2" ,Flapper	Reverse Flow ,2" 15	02 M x 2" 1502	F ,STD ,SPM ,2A290	15000, 24	CWP	
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
1304VAS271-5		November 6, 2019	308	Level 2	Pass	REUSED KIT	UNKNOWN
Description: Elbow	,2" ,Short Radius	Compact ,90° ,2" 150	02 M x 2" 1502	F STD SPM 31132	34 15000 (°WP	
	Second Serial		New Unit	Service Level	Status	Kit#	Tracking #
312IBG027-3		November 6, 2019	308	Level 1	Pass		
escription: Mud L	ine Hose, 1" v All I	engths ,1" 1502 M x	1" 1E03 E CTD	ADO 4500 CWB			
	Second Serial						
SH781-8		November 6, 2019	New Unit	Service Level	Status	Kit #	Tracking #
,	l	November 6, 2019	308	Level 1	Pass		
		engths ,1" 1502 M x	2" 1502 F ,STD	,RELIANCE ,GH493-	-16 ,6000 C	:WP	
	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
6291728BS01		November 6, 2019	308	Level 1	Pass	1	1



08/11/2019

Customer Name: BIG STEAM OILFIELD SERVICES LTD

Ship To Address: BOX 789 BROOKS AB

Job Number: 1106194801-I Job Description: STEAM TRUCK Job Date: November 6, 2019

Description: Plug Valve ,1" ,SP150WU ,2" 1502 M x 2" 1502 F ,STD ,SPM ,1A14483 ,15000 CWP							
Serial Number Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #	
1308VAS163-4	November 6, 2019	308	Level 1	Pass	1 16		
1406VAS009-3	November 6, 2019	308	Level 1	Pass			

Description: Plug Valve ,2" ,LT SuperSeal w/ Operator ,2" 1502 M x 2" 1502 F ,STD ,FloV ,PV152FMA-SS ,15000 CWP									
Serial Number Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #			
2V-3463	November 6, 2019	308	Level 1	Pass	- District				

Description: Plug Valve ,2" ,SP150W	Description: Plug Valve ,2" ,5P150WU ,2" 1502 M x 2" 1502 F ,STD ,SPM ,1A14487 ,15000 CWP								
Serial Number Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #			
1307VAS094-3	November 6, 2019	308	Level 2	Pass	4L11982	2027			

Description: Pressure Relief Valve ,2" ,Adjustable ,2" 1502 M x 2" LPT F ,STD ,SPM ,2A18138 ,15000 CWP									
Serial Number Se	cond Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #		
1203VAS104-1	l l	November 6, 2019	308	Level 1	Pass				
ME1403VAS2-2	1	November 6, 2019	308	Level 1	Pass				

Description: Pump Discharge Flange ,2" ,2" 1502 M x 2" 15K FLG ,STD ,SPM ,FCS00021 ,15000 CWP									
Serial Number Sec	ond Serial Service Dat	te New Unit	Service Level	Status	Kit #	Tracking #			
05011528BS03	November 6, 20	019 308	Level 1	Pass					
05011528BS04	November 6, 20	019 308	Level 1	Pass	104				

Description: Pump Gauge Port ,2" ,2' 1502 F ,STD ,SPM ,2P100586 ,15000 CWP									
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #		
05011528BS05		November 6, 2019	308	Level 1	Pass				



08/11/2019

Customer Name: BIG STEAM OILFIELD SERVICES LTD

Ship To Address: BOX 789 BROOKS AB

Job Number: 1106194801-I
Job Description: STEAM TRUCK
Job Date: November 6, 2019

Serial Number 5	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
6135472ED-1		November 6, 2019	308	Level 1	Pass		
6135472ED-10		November 6, 2019	308	Level 1	Pass	T GW	
6135472ED-12		November 6, 2019	308	Level 1	Pass	100	
6135472ED-13		November 6, 2019	308	Level 1	Pass		
6135472ED-17		November 6, 2019	308	Level 1	Pass		
6135472ED-18		November 6, 2019	308	Level 1	Pass		
6135472ED-2		November 6, 2019	308	Level 1	Pass		
6135472ED-3		November 6, 2019	308	Level 1	Pass		
6135472ED-5		November 6, 2019	308	Level 1	Pass		
6135472ED-6		November 6, 2019	308	Level 1	Pass		
6135472ED-7		November 6, 2019	308	Level 1	Pass		
6135472ED-9		November 6, 2019	308	Level 1	Pass		
6136060ED-12		November 6, 2019	308	Level 1	Pass		
6136060ED-20		November 6, 2019	308	Level 1	Pass		

Description: Straight Joint ,2" x 24"	,NPST Det/Nut ,2" 15	02 M x 2" 1502	F,STD,SPM,2A232	281 ,15000	CWP ,2.38" (DD
Serial Number Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
6135473ED-7	November 6, 2019	308	Level 1	Pass		

Description: Straight Joint ,2" \times 60" ,NPST Det/Nut ,2" 1502 M \times 2" 1502 F ,STD ,SPM ,2A23385 ,15000 CWP ,2.375" OD Serial Number Second Serial Service Date **New Unit** Service Level Status Kit # Tracking # 05011528BS06 November 6, 2019 308 Level 1 Pass 6133433ED-2 November 6, 2019 308 Level 1 Pass 6135392ED-5 November 6, 2019 308 Level 1 Pass 6136137ED-17 November 6, 2019 308 Level 1 Pass 6136137ED-20 November 6, 2019 308 Level 1 Pass

Description: Swage ,2" ,2" 1502 F x	2 3/8" EUE M ,STD ,k	(EM ,1502SW2)	(2375EA ,10000 CWI			
Serial Number Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
K3738555SW	November 6, 2019	308	Level 1	Pass		

Description: Swage ,2" ,2" 1502 F x 2 7/8" EUE M ,STD ,KEM ,1502SW2X2875E ,10000 CWP							
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
K377765SW		November 6, 2019	308	Level 1	Pass		



08/11/2019

Customer Name: BIG STEAM OILFIELD SERVICES LTD

Ship To Address: BOX 789 BROOKS AB

Job Number: 1106194801-I Job Description: STEAM TRUCK Job Date: November 6, 2019

Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
K426526SW		November 6, 2019	308	Level 1	Pass	1	
		502 M x 2" 1502 F ,S	STD ,SPM ,2A17	135 ,15000 CWP			
	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
05011528BS01		November 6, 2019	308	Level 1	Pass		
Description: Swive	1 2" IR S50 2" 1	502 M × 2" 1502 F ,S	TD SPM 2417	139 15000 CWP		200	
		Service Date	New Unit	Service Level	Chabus	Wib #	
05011528BS02	Second Serial	November 6, 2019	308	Level 1	Status Pass	Kit #	Tracking #
1402HAS050-3		November 6, 2019	308	Level 1	Pass	100	
Description: Swive	1 "2, 250 S50 LS S50 ,2" 1	502 M x 2" 1502 F ,S	TD ,FMC ,31394	75 ,15000 CWP			
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
081510A10124		November 6, 2019	308	Level 1	Pass	T AS	
Description: Swive	1 2" SEN 2" 1503	M x 2" 1502 F ,STD	PEC E331000F	15000 CMB		250	
		Service Date	New Unit				
L458-1	Second Serial	November 6, 2019	308	Service Level	Status Pass	Kit #	Tracking #
L458-5		November 6, 2019	308	Level 1	Pass		
			1,01		1 455	700	
Description: Tee ,2	2" ,2" 1502 M x 2"	1502 F x 2" 1502 F ,	STD ,TSI ,FF-42	3-1 ,15000 CWP			
Serial Number	Second Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
.735-193		November 6, 2019	308	Level 1	Pass	1 1 1 1	
escription: Tee 2	" 2" 1502 M v 2"	1502 F x 2" 1502 M ,	CTD FI-V T1F	IMENA LEGGO CILID		KK	
	Second Serial						
51137-D	Second Serial	November 6, 2019	New Unit	Service Level	Status	Kit #	Tracking #
51157 6		November 0, 2019	306	Level 1	Pass		
escription: Tee ,2	150 "2, Integral,"	2 M × 2" 1502 F × 2"	1502 M ,STD ,A	nson ,A15625 ,1500	00 CWP		Code Stellar Code Co.
	Second Serial		New Unit	Service Level	Status	Kit #	Tracking #
60988		November 6, 2019	308	Level 1	Pass		
						Na/I	
		2 M × 2" 1502 F × 2"		,3L13230 ,1500	0 CWP		
	Second Serial		New Unit	Service Level	Status	Kit #	Tracking #
309IB9110-2		November 6, 2019	308	Level 1	Pass	10/81 200	



08/11/2019

Customer Name: BIG STEAM OILFIELD SERVICES LTD

Ship To Address: BOX 789 BROOKS AB

Job Number: 1106194801-I Job Description: STEAM TRUCK Job Date: November 6, 2019

Description: Wye ,2"			10.00 IL 113011 120	31077 /15000 CIII			
Serial Number Se	econd Serial	Service Date	New Unit	Service Level	Status	Kit #	Tracking #
394466		November 6, 2019	308	Level 1	Pass	10-100	

Description: Wye ,2" ,2" 1502 M x 2" 1502 F x 2" 1502 F ,STD ,SPM ,3L13139 ,15000 CWP						
Serial Number Second Seria	I Service Date	New Unit	Service Level	Status	Kit #	Tracking #
1111ICS028-7	November 6, 2019	308	Level 1	Pass		



Dynamic Industrial Solutions 1791 30th St SW Medicine Hat, AB T1B 3N5 Tel. 403-527-7272 Fax 403-529-6526 accounts@dynamicis.ca

WORK ORDER TANK-6293

Tank Inspection

Ordered By: BILL 403 363-3293	Date: 9-Sep-21	Completed: 14-Sep-21
Customer: Big Steam Oilfield Services	Facility:	
Location: VARIOUS UNITS	Job Number:	
Description Of Work	•	
TRAVEL TO BROOKS FOR B 620 INSPECTIONS	*	
UNIT 308 VK INSPECTION UNIT 310 VK INSPECTION		

Miscellaneous Charges

Item	Quantity	Rate	Amount
B620 Visual Inspection	2.00	\$150.00	\$300.00
B620 Leakage Test	2.00	\$150.00	\$300.00
Mileage	120.00	\$0.75	\$90.00
Shop Supplies	4.00	\$9.00	\$36.00
		Total:	\$726.00

Technician Signature:		Totals: Labour	\$0.00	
		Parts	\$0.00	
Customer Name:		Travel	\$0.00	
		Rentals	\$0.00	
Customer Approved: Order Accepted		Miscellaneous	\$726.00	
		Subsistence	\$0.00	
Inspection:	Date:	Sub Total:	\$726.00	
	HIGHT OF TAXABLE CONTRACTOR OF TAXABLE CONTR	GST	\$36.30	
Tel. 403-5		Work Order Total:	\$762.30	



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

eld Services ooks, AB T1R AL: A1011	SERIAL NO MVID/TCR								
AL: A1011 9 mm	SERIAL NO MVID/TCR								
9 mm	MVID/TCR								
9 mm	The same of the sa	N: 412.MS.06		TELEPHONE: (403) 793-7046 SERIAL NO.: 4M5NM063ME1448603					
9 mm	ASSEMBLE	UNIT NO.: 308 MVID/TCRN: 412.MS.06.5 MANUFACTURER: Hamm's ASSEMBLER: Hamm's							
9 mm		R: Hamm's							
C 3. 131.23		CERTIFICAT	ION DATE: 0	1/2014					
DDECCLIDE, 7 F	MINUMUN	/ THICKNESS	HEAD: 3.99 r	nm					
PRESSURE: 7.5	psi								
IN	SULATED:	YES	NO 🗸						
L	2 6430 L		3 2150 L			14			
	5								
I []	P PRESSURE:	K 🗸	т 🗆	UC [_ L				
10:	OPEN PSI:		RESEAT PSI	1					
REPAIRED		REPLACED							
10:	OPEN PSI:		RESEAT PSI	:					
REPAIRED		REPLACED							
10:	OPEN PSI:		RESEAT PSI	:					
REPAIRED		REPLACED							
10:	OPEN PSI:		RESEAT PSI						
REPAIRED		REPLACED			10-10-10-10-1	-			
0:	OPEN DOL		RESEAT PSI						
1.50	OFEN PSI.		11202111 101						
	TO DISCHARGE NO: REPAIRED NO: REPAIRED NO: REPAIRED NO: REPAIRED	TO DISCHARGE PRESSURE: NO: OPEN PSI: REPAIRED OPEN PSI: REPAIRED REPAIRED REPAIRED REPAIRED OPEN PSI: REPAIRED OPEN PSI: REPAIRED OPEN PSI:	I P K J TO DISCHARGE PRESSURE: NO: OPEN PSI: REPAIRED REPLACED NO: OPEN PSI:	L 2 6430 L 3 2150 L 5 I P K T T TO DISCHARGE PRESSURE: 55 NO: OPEN PSI: RESEAT PSI REPAIRED REPLACED	L 2 6430 L 3 2150 L 5 I P K T UC [TO DISCHARGE PRESSURE: 5 psi NO: OPEN PSI: RESEAT PSI: REPAIRED REPLACED RESEAT PSI:	L 2 6430 L 3 2150 L 5 I P K T UC L TO DISCHARGE PRESSURE: 5 psi NO: OPEN PSI: RESEAT PSI: REPAIRED REPLACED			

EXTERNAL VISUAL INSPECTION "V"

Item Inspected	QC Man.Ref.	Compiles	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.		х		
Upper coupler for cracks, corrosion, distortion, and bolt tightness		N/A		
Piping and valves for leakage, damage, and corrosion		х		
Valve operating systems, remote closures, and thermal devices	12.2.7	х		
Hoses for defects, identification and test dates	12.2.8	N/A		
Gaskets on full opening rear heads for damage or cuts	12.2.9	N/A		
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	×		
Relief valves and vents (replace or test if in corrosive lading Service)	12.2.13	x		
Accident damage protection; compliance, damage, distortion, corrosion	12.2.14	×		
Off truck emergency shut down system	12.2.15	N/A		
Inspector: Kevin Fury Signature:	-	Date: Septe	mber 10,	2021

INTERNAL VISUAL INSPECTION "I"

Ite	m 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			
interior welds for defects, cracking	g, etc.	12.3.4			
Internal supports and attachmen	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: 3 psi

(80% of the MAWP Min.)

Pressure Gauge Serial No.:

218181D0040

Test Medium: Water

Calibration Date: Feb.3, 2021

- LIOIDIDOOTO	Calibration Date, Feb.3, 2021					
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 discharge valves.	12.4.5	×				
Ensure all adjacent compartments and voids are empty and open to atmosphere.	12.4.6	×				
Fill compartment with enough test medium to cover valves.	12.4.7	x				
Pressurize tank to correct pressure and hold for 5 min. (Must have 0 psi pressure drop).	12.4.8	x				
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	x				
Restore operation of all vents.	12.4.12	x				
Tester: Kevin Fury Signature:	1	Date: Septe	mber 10, 2	2021		

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.:

Calibration Date:

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 d	evices and close internal valves.	12.5.1.5			
Ensure all remaining closures are rated at or al	oove test pressure.	12.5.1.6			
Ensure adjacent compartments and voids are a	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			
Disconnect pressure source and hold pressure	for 10 minutes.	12.5.2.4			
With tank under pressure inspect exterior for l	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			
Relieve pressure and drain tank.		12.5.2.9			
Reinstall or return all relief valves to working co	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:

	Leakage Test Item	QC Man.Ref.	Complies	Reject	Retest		
All product piping, valves, and acci inoperative.	essories in place. Breathing vents rendered	12.4.2					
Close all internals and open all disc	harge valves.	12.4.5					
Ensure all adjacent compartments and voids are empty and open to atmosphere.		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 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.:

Calibration Date:

	Calibration Date;					
Pneumatic Pressure	Test Item	QC Man Ref.	Complies	Reject	Retest	
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 o	devices 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		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 joints and around all venting and piping.	to coat entire surface of all	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 relie	f 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 HEA
1					1	
2					2	
3					3	$($ \times
4					4	
5					5	
6					6	
7					7	REAR HEAD
8					8	
9					9	/
10					10	(
11					11	
					HEAD	
	12:00	3:00	6:00	9:00		
MAN	WAY	SU	MP	NO	ZZLE	NOZZLE

MANWAY	SUMP	NOZZLE	NOZZLE
Manufacture's Thickne	Head:	Shell:	
Minimum Thickness	Head:	Shell:	

Inspector:	Signature:	Date:	
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Shell:

HEATING SYSTEM TEST (QC Manual Reference 12.10)

Test Medium: Pressure Gauge Serial No.: Calibration Date:

resource dauge serial 140.			Calibration Date:					
Heating Stsye	m Test Inspection Item	QC Man.Ref.	Complies	Reject	Retest Complies			
Ensure all tank compartments ar	e empty and at atmospheric pressure	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:	Signature:						

Test Pressure

UPPER COUPLER INSPECTION UC (QC Manual Reference 12.2.6)

Upper Coupl	er Inspection Item	QC Man.Ref.	Complies	Reject	Retest Complies
Remove Upper Coupler or Turntabl	e from unit	12.2.6			
Inspect areas covered by the Upper Coupler or Turntable assemiby for corrosion, abrasion, dents, distortion or any other condition that would render the tank unsafe		12.2.5.1			
While removed inspect Upper Coupler assembly for cracks, distortion, plate wear and kingpin wear.		12.2.6.2			
If equipped, inspect Turntable for w	ear, distortion and cracks	12.2.6.3			
Install Upper Coupler or Turntable assembly		12.2.6.4			
Inspector:	Signature:	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 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:	Date:			

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



Tel. 403-527-7272 Fax 403-529-6526

accounts@dynamicis.ca

Dynamic Industrial Solutions 1791 30th St SW Medicine Hat, AB T1B 3N5 Tel. 403-527-7272 Fax 403-529-6526 accounts@dynamicis.ca

WORK ORDER

TANK-5510

Tank Inspection

Ordered By: TIM HOFER 40	3 376-1804	Date: 25-J	Jul-19	Completed: 25	5-Jul-19
Customer: Big Steam Oilfield	Services	Facility:			
Location: Unit # 308		Job Number:			
Description Of Work					
TRAVEL TO BROOKS FOR VI	PK INSPECTION				
Miscellaneous Charges					
Item			Quantity	Rate	Amoun
B620 Visual Inspection			1.00	\$150.00	\$150.00
B620 Internal Inspection			1.00	\$150.00	\$150.00
B620 Pressure Test			1.00	\$150.00	\$150.00
B620 Leakage Test			1.00	\$150.00	\$150.00
Shop Supplies			4.00	\$9.00	\$36.00
				Total:	\$636.00
Technician Signature:			Totals:	Labour	\$0.00
				Parts	\$0.00
Customer Name:				Travel	\$0.00
				Rentals	\$0.00
Customer Approved:		Order Accepted	Misc	cellaneous	\$636.00
oustorier Approved.			St	ubsistence	\$0.00
oustomer Approved.				acciotorio	
Inspection:	Date:			Sub Total:	\$636.00

BN:857198857 RT 0001

\$667.80

Work Order Total:



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

Fax: (403) 529-6526

Facility Registration No. 25-709

Inspection Report in Accordance with CSA B620-14

TEST DATE: July 23, 2019

TANK OWNER: Big Steam Oilfield Services

ADDRESS: #5 Boswell Cres. Brooks, AB T1R 1B7

TELEPHONE: (403) 793-7046

VIN NO.: 5KKUALD10EPFY5410

UNIT NO.: 308

MVID/SN: 4M5NM063ME1448603

MANUFACTURER: Goldec Hamm's

MFR DATE: June 2014

MATERIAL: A1011

TANK SPEC:TC412/TC406

X

MAWP: 5 psi

COMP. CAPACITY:

TESTS PERFORMED

1 2140 litres

2 6430 litres

3 2150 litres

PWHT:

4

QT:

"V"

5 NQT:

MC/TC331:

ոլո

EXTERNAL VISUAL INSPECTION "V"

Item Insp	ected	QC Man.Ref.	Complies	Reject	Retest Complies
Data plate, present and legible	Per	8.2.3	x		
Shell & heads; corrosion, dents, overlay pa	tches, leaks, voids, etc.	8.2.4	Х		
Structural members, outriggers crossmem	bers, etc.	8.2.5	Х		
Upper coupler for cracks, corrosion, distort	ion, and bolt tightness	8.2.6	N/A		
Piping and valves for leakage, damage, and	corrosion	8.2.7	Х		
Valve operating systems, remote closures,	and thermal devices	8.2.7	Х		
Hoses for defects, identification and test da	ites	8.2.8	N/A		
Gaskets on full opening rear heads for dam	age or cuts	8.2.9	N/A		
Tank attachments to frame or running gear		8.2.10	Х		
Ladders, walkways, platforms, etc.		8.2.11	Х		
Fill covers, manways, and closure devices		8.2.12	Х		
Relief valves and vents (replace or test if in	corrosive lading Service)	8.2.13	X		
Accident damage protection; compliance, d	8.2.14	Х			
Off truck emergency shut down system		82.75	N/A		
Inspector: Donovan Bellamy	Signature.	Contract of the last of the la		23, 2019	-

INTERNAL VISUAL INSPECTION "I"

QC Man Ref.	Complies	Reject	Retest Complies
8.3.2	×		
8.3.3	Х		
8.3.4	Х		
8.3.4	X		
-	Date: Jul	y 23, 2019	
֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	8.3.2 8.3.3	8.3.2 X 8.3.3 X 8.3.4 X	Ref. 8.3.2 X 8.3.3 X 8.3.4 X 8.3.4 X

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

Description of defect No defects	ts found and methods used to rep	air:							
TANK DISPOSITION	Removed from service	Yes		No	х				
	Safety Mark (Specification Indica	ation) re	emov	ed		Yes	No	x	
	Returned to Service	Yes	x	No					
Tank marking applied	(QC Manual Reference Section 15	5)		Yes	х	No			



1791 30th St. S.W. Medicine Hat, AB T1B 3N5 Phone: (403) 527-7272 Fax: (403) 529-6526

Facility Registration No. 25-709

Hydrostatic Leak & Pressure Test Report in Accordance with CSA B620-14

T	ES	T	DAT	E:	Ju	ly	23,	2019	
_	200	-		-	25	-			

TANK OWNER: Big Steam Oilfield Services
ADDRESS: #5 Boswell Cres. Brooks, AB T1R 1B7

TELEPHONE: (403) 793-7046 VIN NO.: 5KKUALD10EPFY5410 UNIT NO.: 308 WVID/SN: 4M5NM063ME1448603

MANUFACTURER: Goldec Hamm's MFR DATE: June 2014

MATERIAL: A1011 TANK SPEC:TC412/TC406 MAWP: 5 psi

COMP. CAPACITY: 1 2140 litres 2 6430 litres 3 2150 litres

4 5 MC/TC331: QT: □ NQT: □ PWHT: □

TESTS PERFORMED "K" X "P" X

LEAKAGE TEST "K" (QC Manual Reference 8.3)

Test Pressure: 4.5 psi (80% of the MAWP Min.) Test Medium: Water

Hydrostatic Leakage Test Item	QC Man.Ref.	Complies	Reject	Retest
All product piping, valves, and accessories in place. Breathing vents rendered inoperative.	8.4.2	х		
Close al internals and open all discharge valves.	8.4.4	Х		
Ensure all adjacent compartments and voids are empty and open to atmosphere.	8.4.5	х		
Fill compartment with enough test medium to cover valves.	8.4.6	х		
Pressurize tank to correct pressure and hold for 5 min. (Must have 0 psi pressure drop).	8.4.7	х		
While under pressure check tank, gaskets, internal valves, manhole covers, and vents for leakage.	8.4.8	х		
Close discharge valves and open internal valves. Adjust pressure and check plumbing and discharge valves for leakage.	8.4.9	х		
Restore operation of all vents.	8.4.11	Х		
Inspector: Donovan Bellamy Signature:	5	Date: July	23. 2019	

PRESSURE TEST "P"

(QC Manual Reference 8.4)

Test Pressure (Tank): 7.5 psi

(Refer to Table 7.3 of CSA B620-14 posted in fitting cabinet for appropriate test pressure)

Test Pressure (Piping): 7.5 psi

(80% of the MAWP)

Test Medium: Water

Hydrostatic Pressure Test Item	QC Man Ref.	Complies	Reject	Retest
Level and adequately support the tank.	8.5.1.2	X		
Remove self closing relief valves for testing.	8.5.1.3	Х		
Remove or render inoperative all other relief devices and close internal valves.	8.5.1.4	x		
Ensure all remaining closures are rated at or above test pressure.	8.5.1.5	Х		
Ensure adjacent compartments and voids are empty and open to atmosphere.	8.5.1.6	x		
Fill compartment completely with water.	8.5.2.1	Х		
Install pressurization line and slowly increase pressure to test pressure.	8.5.2.2 & 3	х		
Disconnect pressure source and hold pressure for 10 minutes.	8.5.2.4	Х		
With tank under pressure inspect exterior for leaks, defects, or distortion.	8.5.2.5	x		
Relieve pressure in tank.	8.5.2.6	X		
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.	8.5.2.7	x		
Relieve pressure and drain tank.	8.5.2.9	Х		
Reinstall or return all relief valves to working condition.	8.5.2.10	X		
Tank Inspector: Donovan Bellamy Signature:	3	Date: July 2	23 2010	

Description of defec No defects	ts found and methods used to repair:								
TANK DISPOSITION	Removed from service	Yes		No	×				
	Safety Mark (Specification Indication) remov	/ed			Yes	No	x	
	Returned to Service	Yes	х	No					
Tank marking applied	(QC Manual Reference Section 15)			Yes	X	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 S ADDRESS: #5 Boswe								
ADDRESS: #5 Boswe								
	Il Cres. Brook	s, AB T1R	187					
TELEPHONE: (403) 793	3-7046		SERIAL NO).: 4M5NM06	3ME144860)3		
UNIT NO.: 308			MVID/TCR	MVID/TCRN: 412.MS.06.5.T				
MANUFACTURER: Han	nm's		ASSEMBLE	R: Hamm's				
TC SPEC.: 412/406	MATERIAL:	A1011		CERTIFICAT	TION DATE:	06/2014		
MINIMUM THICKNESS	SHELL: 3.99 m	m	MINUMUI	M THICKNESS	The second secon	THE RESERVE AND ADDRESS OF THE PARTY OF THE		
MAWP: 5 psi	DESIGN PRE	SSURE:						
LINING: YES SPECIAL SERVICE CONI	NO 🗸 DITIONS:	IN	SULATED:	YES	NO 🗸			
COMP. CAPACITY:	1 2140 L		2 6430 L		3 2150 L			
	4		5				_	
PRESSURE RELIEF DEVI	CES: SET TO			K 🗸	Т	UC [L	
#1) TYPE: Betts	SERIAL NO:		OPEN PSI:	6.36 psi	RESEAT P	SI: 6.36 psi		
REINSTALLED 🗸	T	REPAIRED		REPLACED				
#2) TYPE: Betts	SERIAL NO:		OPEN PSI:	6.36 psi	RESEAT P	SI: 6.36 psi		
REINSTALLED		REPAIRED		REPLACED				
	SERIAL NO: I		OPEN PSI:	6.36 psi	RESEAT PS	SI: 6.36 psi		
REINSTALLED 🗹	Inners are	REPAIRED		REPLACED				due de la constante de la cons
REINSTALLED 🗹 #4) TYPE:	SERIAL NO:		OPEN PSI:		RESEAT PS	SI:		
REINSTALLED #4) TYPE: REINSTALLED		REPAIRED		REPLACED				
#3) TYPE: Betts REINSTALLED #4) TYPE: REINSTALLED #5) TYPE: REINSTALLED REINSTALLED	SERIAL NO:		OPEN PSI:		RESEAT PS			

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	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	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	N/A		
Tank attachments to frame or running gear	12.2.10	х		
Ladders, walkways, platforms, etc.	12.2.11	Х	V 1	
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	3	
Accident damage protection; compliance, damage, distortion, corrosion	12.2.14	×		
Off truck emergency shut down system	12.2.15	х		
Inspector: Dan Laekeman Signature:		Date: Augus	st 12, 202	2

INTERNAL VISUAL INSPECTION "I"

Ite	m Inspected	QC Man Ref.	Complies	Reject	Retest Complies
Interior surface for corrosion, dis	12.3.2				
If required by the tank specification Particle Inspection and file report Solutions Proceedure Number QI	12.3.3				
interior welds for defects, cracking	ig, etc.	12.3.4			
Internal supports and attachmen	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: 3 psi

(80% of the MAWP Min.)

Pressure Gauge Serial No.:

Test Medium: Water 21821460039

Calibration Date: Jan. 13, 2022

Hydrostatic Leakage Test Item	QC Man.Ref.	Complies	Reject	Retest		
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	×				
Ensure all adjacent compartments and voids 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	×				
While under pressure check tank, gaskets, internal valves, manhole covers, and vents for leakage.	12.4.9	x				
Close discharge valves and open internal valves. Adjust pressure and check plumbing and discharge valves for leakage.	12478	х				
Restore operation of all vents.	12.4.12	-X				
Tester: Dan Laekeman Signature:		Date: Augus	t 12, 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.:

Calibration Date:

Trestare Gaage Schar IVO		Calibration			
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.	X 27 000 000 000 000	12.5,1.4			
Remove or render inoperative all other relief de	vices and close internal valves.	12.5.1.5			
Ensure all remaining closures are rated at or abo	ove test pressure.	12.5.1.6			
Ensure adjacent compartments and voids are en	mpty and open to atmosphere.	12.5.1.7			
Fill compartment completely with water.		12.5.2.1			
Install pressurization line and slowly increase pressure to test pressure.		12.5.2.2 & 3			
Disconnect pressure source and hold pressure for	or 10 minutes.	12.5.2.4			
With tank under pressure inspect exterior for leaks, 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			1
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
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		All and a second	
Ensure all adjacent compartments an atmosphere.	nd voids are empty and open to	12.4.6			
Fill compartment with enough test n	nedium 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 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.:

Calibration Date:

	Calibration Date.					
Test Item	QC Man Ref.	Complies	Reject	Retest		
	12.5.1.3					
	12.5.1.4					
levices and close internal valves.	12.5.1.5					
pove test pressure.	12.5.1.6					
	12.5.1.7					
eing 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			+		
Maintain pressure while using soap and water to coat entire surface of all joints and around all venting and piping.						
Relieve pressure in tank, close discharge valves and open internal valves.						
old for 10 min. Soap surface of nbing being tested.	12.5.3.10 & 11					
Relieve pressure in tank.						
Reinstall or return to working condition all relief devices.						
Tester: Signature:		Date:				
	evices and close internal valves. pove test pressure. empty and open to atmosphere. eing performed and that they ressure in tank. Pressure to one test pressure until pressure is the MAWP. to coat entire surface of all and open internal valves. old for 10 min. Soap surface of noing being tested.	rest rem Ref. 12.5.1.3 12.5.1.4 revices and close internal valves. 12.5.1.5 revices and close internal valves. 12.5.1.6 rempty and open to atmosphere. 12.5.1.7 reing performed and that they 12.5.3.2 ressure in tank. Pressure to one test pressure until pressure is 12.5.3.3 12.5.3.5 12.5.3.6 12.5.3.6 12.5.3.7 12.5.3.8 & 9 12.5.3.8 & 9 12.5.3.10 & 11 12.5.3.12 12.5.3.14	Test Item QC Man Ref. 12.5.1.3 12.5.1.4 evices and close internal valves. 22.5.1.5 dove test pressure. 12.5.1.6 empty and open to atmosphere. 21.5.1.7 eing performed and that they 12.5.3.2 ressure in tank. Pressure to one test pressure until pressure is 21.5.3.3 12.5.3.5 the MAWP. 12.5.3.6 to coat entire surface of all 12.5.3.7 and open internal valves. 12.5.3.8 & 9 old for 10 min. Soap surface of holing being tested. 12.5.3.12 of devices. 12.5.3.14	Test Item QC Man Ref. 12.5.1.3 12.5.1.4 evices and close internal valves. 22.5.1.5 evices and close internal valves. 12.5.1.6 empty and open to atmosphere. eing performed and that they 12.5.3.2 ressure in tank. Pressure to one test pressure until pressure is 12.5.3.5 the MAWP. 12.5.3.6 to coat entire surface of all 12.5.3.7 and open internal valves. 12.5.3.8 & 9 old for 10 min. Soap surface of holing being tested. 12.5.3.14 and devices. 12.5.3.14		

THICKNESS TEST "T"

(QC Manual Reference 12.6)

	12:00	3:00	6:00	9:00		
					HEAD	FRONT HEAD
1					1	
2					2	
3					3	1(×)
4					4	1(///
5					5	
6					6	1
7					7	REAR HEAD
8					8	
9					9	
10					10	1(×)
11					11	
					HEAD	
	12:00	3:00	6:00	9:00		
/linimum 1	ure's Thickne Thickness	Head: Head:		Shell: Shell:		
/linimum 1			Signature:			Date:
dinimum 'nspector:	Thickness SYSTEM TEST	Head:	Signature:	Shell:		
Alinimum ' Inspector: IEATING S est Pressur	Thickness SYSTEM TEST	Head:		Shell:		Test Medium:
Alinimum ' Inspector: IEATING S est Pressur ressure Ga	Thickness SYSTEM TEST Te uge Serial No.	Head:	Manual Refe	Shell:)) QC	Test Medium: Calibration Date:
Alinimum ' Inspector: IEATING S est Pressur ressure Ga	Thickness SYSTEM TEST	Head:	Manual Refe	Shell:		Test Medium: Calibration Date:
Alinimum ' Inspector: IEATING S est Pressur ressure Ga He Insure all tank	Thickness SYSTEM TEST Te uge Serial No.	Head: (QC N :: em Test In:	Manual Refe	shell:	QC	Test Medium: Calibration Date: Complies Reject Retes
Alinimum ' Inspector: IEATING S est Pressur ressure Ga He Insure all tank Il heating syst	SYSTEM TEST re uge Serial No. eating Stsye compartments a tem with fluid and	Head: (QC N :: em Test Ins	Manual Refe spection It t atmospheric pr 1.5 times the he	erence 12.10	QC Man.Ref. 12.10.1 12.10.2	Test Medium: Calibration Date: Complies Reject Retes
nspector: IEATING S Test Pressure Ga He Insure all tank II heating syst	SYSTEM TEST re uge Serial No.	Head: (QC N :: em Test Insert empty and and pressurize to indicate the insert for insert ins	Manual Refe spection It t atmospheric pr 1.5 times the he	erence 12.10	QC Man.Ref.	Test Medium: Calibration Date: Complies Reject Retes

Inspector:

Date:

Signature:

UPPER COUPLER INSPECTION UC (QC Manual Reference 12.2.6)

Upper Coup	oler Inspection Item	QC Man.Ref.	Complies	Reject	Retest Complies
Remove Upper Coupler or Turnta	ble from unit	12.2.6			
Inspect areas covered by the Upper Coupler or Turntable assemily for corrosion, abrasion, dents, distortion or any other condition that would render the tank unsafe		12.2.6.1			
While removed inspect Upper Coupler assembly for cracks, distortion, plate wear and kingpin wear.		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 Inspect all linings other that rubber of FRP corrosion barriers according to the lining manufacturers instructions If lining damage is discovered inspect the tank wall under the damaged lining and thickness test if required.		12.7.1.1 12.7.2.1 12.7.3.1			
Inspector:	Signature:		Date:		18

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