



<input type="checkbox"/> Installation <input checked="" type="checkbox"/> External <input type="checkbox"/> Piping															
Date:	February 7, 2018				Description:	<input checked="" type="checkbox"/> Vessel <input type="checkbox"/> Exchanger <input type="checkbox"/> Furnace Boiler									
Inspector:	Ryan Hogg				Unit #:									Equip #:	848874
Agent Co:	101292687 Saskatchewan Ltd				Equip. Name:	Filter								CRN #:	T4606.4
Province:	Manitoba				Manufacturer:	ESS Corp									
Area:	Run 009 – Ingoldsby/Pierson				Year Built:	2014				S/N:	4550 B				
Subarea:	Battery 09-32-001-28W1				Location/LSD:	BAT/09-32-001-28W1									
Service	<input type="checkbox"/> Sweet <input checked="" type="checkbox"/> Sour <input type="checkbox"/> Other:				PSV Location	Choose an item.				MDMT	-20F				
Zones:	MAWP	Design T	Set P	CPE#	Manufacturer	S/N	In. Sz	Out. Sz	Serv. Co.	Serv. Date	IV	CSO	Capacity		
Shell Side	150 PSI	100 F													
Tube Side											Y/N	Y/N			
Other											Y/N	Y/N			
Components	Material	Nominal t	CA	Retire t	Lowest t	t OK?	Calc. t-min		Comment						
	Shell					<input type="checkbox"/> Y <input type="checkbox"/> N									
	Head				0.375"	<input type="checkbox"/> Y <input type="checkbox"/> N									
	Channel					<input type="checkbox"/> Y <input type="checkbox"/> N									
	Tube					<input type="checkbox"/> Y <input type="checkbox"/> N									
Other						<input type="checkbox"/> Y <input type="checkbox"/> N			Specify:						
Orientation	<input type="checkbox"/> Hor. <input checked="" type="checkbox"/> Ver.		Foundation	<input type="checkbox"/> Concrete <input type="checkbox"/> Gravel <input type="checkbox"/> Timbers <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Other:			Condition Welded in place								
Support	<input type="checkbox"/> Saddle		<input type="checkbox"/> Seal-welded		<input type="checkbox"/> Free to Move		Condition:								
	<input type="checkbox"/> Skirt		<input type="checkbox"/> Free of debris Comment:				Condition:								
	<input type="checkbox"/> Hangers		<input type="checkbox"/> Secure Comment:				Condition:								
	<input checked="" type="checkbox"/> Other		Specify: Stand inside building				Condition: Painted inside building								
Overall	General Condition:						Electrical grounding <input type="checkbox"/> Direct <input checked="" type="checkbox"/> Indirect <input type="checkbox"/> None								
Ext. Surface	<input checked="" type="checkbox"/> Painted <input type="checkbox"/> Insulated <input type="checkbox"/> Fire-proofed <input type="checkbox"/> Cladded <input type="checkbox"/> Other:						Condition:								
Ext. Fixtures	<input type="checkbox"/> Ladder <input type="checkbox"/> Platform(s) <input type="checkbox"/> Other:						Condition:								
	<input type="checkbox"/> Manway <input checked="" type="checkbox"/> Port		Size: Removable top head			<input type="checkbox"/> Reinforcement Pads used		<input type="checkbox"/> Weep Holes Present							
	Comment														
Davit Arm	<input type="checkbox"/> Present <input type="checkbox"/> Greased		<input type="checkbox"/> Double nutted		Condition										
Piping	<input type="checkbox"/> PSV	<input type="checkbox"/> Supported	<input type="checkbox"/> Joined per code	<input type="checkbox"/> Drains Properly	<input type="checkbox"/> Well Coated	Comment:									
	<input checked="" type="checkbox"/> Inlet	<input checked="" type="checkbox"/> Supported	<input checked="" type="checkbox"/> Joined per code	<input checked="" type="checkbox"/> Free from leaks	<input type="checkbox"/> Well Coated	Comment:									
	<input checked="" type="checkbox"/> Outlet	<input checked="" type="checkbox"/> Supported	<input checked="" type="checkbox"/> Joined per code	<input checked="" type="checkbox"/> Free from leaks	<input type="checkbox"/> Well Coated	Comment:									
	<input checked="" type="checkbox"/> Drain	<input checked="" type="checkbox"/> Supported	<input checked="" type="checkbox"/> Joined per code	<input checked="" type="checkbox"/> Free from leaks	<input type="checkbox"/> Well Coated	Comment:									
	<input checked="" type="checkbox"/> Instrumentation	<input checked="" type="checkbox"/> Supported	<input checked="" type="checkbox"/> Joined per code	<input checked="" type="checkbox"/> Free from leaks/kinks	Comment:										
	<input type="checkbox"/> Process Fluid Identified		<input type="checkbox"/> Flow direction marked		Comment:										
Valves	<input checked="" type="checkbox"/> Manual Isolation Valve		<input checked="" type="checkbox"/> Free from leaks		Comment:										
	<input type="checkbox"/> Automated Control Valve		<input type="checkbox"/> Free from leaks		Comment:										
	<input type="checkbox"/> Vents and Drain plugged		Comment												
Gauges	<input checked="" type="checkbox"/> Pressure		Reading: 60 PSI		Condition: clean and readable										
	<input type="checkbox"/> Temperature		Reading:		Condition:										
Sight Glass	<input type="checkbox"/> Fluid Level		Reading:		Condition:										
Inspection Summary	Inspection Practices: 2.0 Non-Fired Pressure Vessels														
	Filter is acceptable for service at the time of inspection. Bottom head was UT'd readings throughout were 0.375" with no signs of internal corrosion – design is same as 4550 A which was open at the time of inspection and there is no access to the bottom heads. Cartridges are not used in the vessels – flow is straight through.														
Recommended Actions:										NCR/IDR					
VESSEL STATUS															
Integrity Status	Suitable for Continued Service <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Future Repairs Required														
Inventory Status	<input checked="" type="checkbox"/> In Service <input type="checkbox"/> Out of Service <input type="checkbox"/> Surplus <input type="checkbox"/> Rental <input type="checkbox"/> Scrap														



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Inspection Interval: 5 yrs OR Changed to: _____ yrs.
 PSV Interval: OR Changed to: _____ yrs.
 Ultrasonic Inspection Interval: 1 yrs OR Changed to: _____ yrs.

Class 1 Class 2 PEI Certificate #: PEI 128

IPV/IBPV Certificate #: _____

Inspectors Name: Ryan Hogg Signature: Ryan Hogg

Chief Inspector: I certify that the information on this report is true and all inspections as required by our Owner/User Quality Assurance Program # QMS-0036 which expires September 6, 2018 have been done.

Recommendations:

- UT after 1 yr service due to corrosion issues in the adjacent filters.
- Filters should be cleaned out on a regular basis when switching to opposite bank of filters.