

Field Inspection Report - Long_Run V110778_11/07/2013_VT_Internal

Vessel Number	V110778	Vessel Name	GLYCOL FILTER	Province	Alberta
District	NORTHERN - AB	LSD	03-26-074-01W6	Location	PUSKWASKAU
Method	VT	Access	Internal	Cleaning	Good
Inspection Date (mm/dd/yyyy)	11/07/2013	Inspection Interval (months)	60	Next Inspection (mm/dd/yyyy)	11/07/2018
CRN	N/A	Skid Number	PKG62777	Service	SWEET
Internal Access	No	Internal Coating	No	Status	In Service
MAWP (PSI)		MAWP (kPa)		Outstanding NCRs	1
MAWT (°C)		MAWT (°F)			

General

The vessel was blinded, opened and cleaned for internal inspection as part of the 2013 T/A. Vessel is indoors and painted with the quick closure top dollar plate design. This is a vertical filter with a flat head and 8 swivel anchor bolts.

Ultrasonic corrosion survey was completed on this piece of pressure equipment and associated piping in 2013 with no notable wall loss recorded.

All vessel thickness readings were found to be above ASME Section VIII, Div. 1 code requirements at time of inspection.

PSV protecting the vessel was serviced during this T/A.

In sweet service.
No name plate.
See attached pictures

Safety Valves

PSV P99592 Shell side. Set pressure: 50 PSI / 344.74 KPa. MAWP: PSI / KPa. Capacity: 128 SCFM / 3.62 m3/min.

External Condition

All visible shell surfaces and nozzles appear in good condition. No name plate is attached to this vessel. Vessel supports, foundation and electrical grounding appear good. Exterior is painted and in good condition with only minor paint chips. The closure consists of 8 swivel anchors to a flat dollar plate and a small Oring on the vessel side of closure. All hardware swivels and threads appear to have no damage. Associated piping, supports and

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components appear in good condition and alignment with no signs of leaks or defects present at the time of inspection. Filter has a flat square base which is bolted to a similar base then welded to the floor on a short stand. No evidence of short studding or nut rounding at time of inspection.

PSV protection is out for service but, has been verified to ensure it has been properly installed with any block valves locked/sealed open. Verify vessel has Alberta CRN. PSV has correct code stamp, set pressure and MWS tagging, and was last serviced within the required interval guidelines.

Assign inspection interval.

Internal Condition

Vessel not internally coated.

All internal vessel shell, head and nozzle surfaces were cleaned for inspection and have evidence of a hard scaling that is peeling making it more difficult to determine the difference between scaling to wall loss. There is scaling with some flash rusting where the shell surface has been etched.

Circs, attachment and Cat. D welds appear in good order.

There is one center rod, so would assume 1 filter element. The filter element supports is threaded on the end to secure elements; all in good condition. Bottom element/divider required cleaning, but appears to have limited corrosion and is secure.

The nozzles are clear.

Threads' on the swivel anchor bolts are in good condition with no mechanical damage and move freely. Found the Oring on the closure to be crushed leaving little sealing capabilities for the lid. New Oring needs to be installed every filter change to ensure proper crush on Oring and to minimize over torquing of the closure.

Davit is in good condition and working order. The davit should be lubricated every filter change.

Recommendations

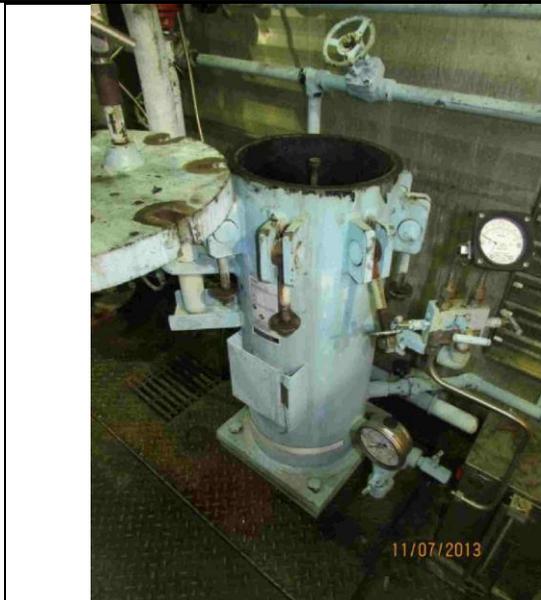
- Install new Oring every filter change to ensure no mechanical damage to the sealing surface and closure is not over tightened.
- Maintain on stream Ultrasonic Corrosion survey monitoring of the vessel components and associated piping.
- After closure, remove manway davit arm, grease and re-install in preparation for next opening.
- Internally inspect again in 5 years.

The above recommendations have been reviewed with operations prior to closure.

Suitable to be returned to Service	Yes	Suggested Inspection interval (Months)	60
Repairs are still required	No		
Daryl Cole Cert 000391 Inspector			11/13/2013 Date (mm/dd/yyyy)
		Signature	

Pictures

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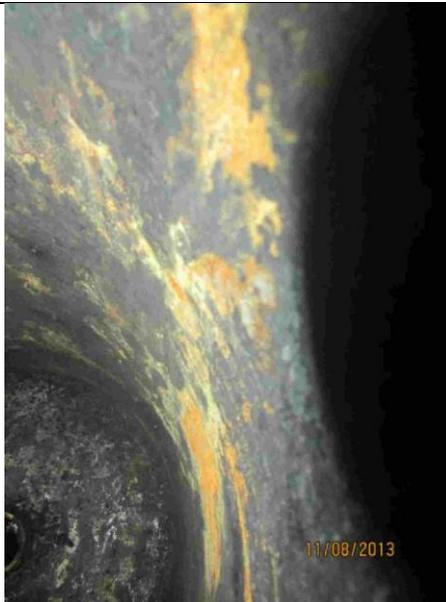
LRE - V110778 GLYCOL FILTER EXT. 11-08-13.JPG



LRE - V110778 GLYCOL FILTER CLOSURE 11-08-13.JPG



LRE - V110778 GLYCOL FILTER INT. 11-08-13 (4).JPG



LRE - V110778 GLYCOL FILTER INT. 11-08-13 (5).JPG