

Field Inspection Report - Long_Run 445940_11/07/2013_VT_Internal

Vessel Number	445940	Vessel Name	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	L7188.2	Skid Number	PKG62777	Service	SWEET
Internal Access	No	Internal Coating	No	Status	In Service
MAWP (PSI)	150	MAWP (kPa)	1034.22	Outstanding NCRs	0
MAWT (°C)	104.44	MAWT (°F)	220		

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 elliptical head design. This is a vertical filter with an elliptical head and 4 swivel anchor bolts on shell with lugs on head.

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 sour service.

RT 1

PWHT - Yes

See attached pictures

Safety Valves

PSV P99591 Shell side. Set pressure: 50 PSI / 344.74 KPa. MAWP: 150 PSI / 1034.22 KPa. Capacity: 128 SCFM / 3.62 m3/min.

External Condition

All visible shell surfaces and nozzles appear in good condition. Name plate is intact and legible. Vessel supports, foundation and electrical grounding appear good. Vessel sits on 4 angle iron supports off floor.

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Exterior is painted and in good condition with some minor mechanical damage. The closure consists of 4 swivel anchors on vessel to an elliptical head with corresponding lugs. The swivels move well and the threads appear to have no damage and move freely. Would recommend to lubricate all components. Associated piping, supports and components appear in good condition and alignment with no signs of leaks or defects present at the time of inspection. 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 and A#. 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. Found there to be remaining hard product build-up with some scaling of this product. There was some etching on the top end of shell with some shallow, wide pits.

The elliptical head had a hard product scaling as well, no notable corrosion. Lugs to secure the head are in good condition with no mechanical damage.

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

There are 1 perforated center rod which is removable to hold element in place and is in good condition. There is 1 elements in this filter and all internal supports and sealing surfaces are in good condition.

The nozzles are clear.

New Oring needs to be installed every filter change to ensure proper crush on Oring and to minimize over torqueing of the closure. The spigot fit on the top of the filter has some corrosion on the inner edge of the Oring, but has adequate material to support the Oring for a while. With this gets thinner; the crush on the Oring may become less and the sealing capabilities become in question. May require a larger Oring in time.

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.
- Clean and lubricate the threads on the swivels for closure

- Internally inspect again in 5 years.

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

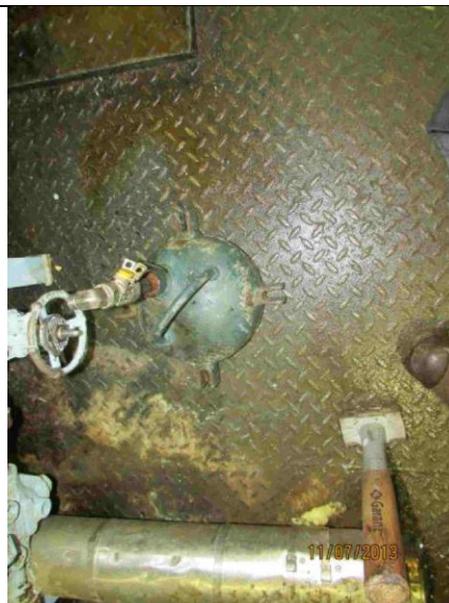
Suitable to be returned to Service	Yes	Suggested Inspection interval (Months)	60
Repairs are still required	No		
Daryl Cole Cert 000391 Inspector			11/14/2013 Date (mm/dd/yyyy)
		Signature	

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Pictures



LRE - 445940 GLYCOL PART. FILTER EXT. 11-07-13.JPG



LRE - 445940 GLYCOL PART. FILTER CLOSURE 11-07-13 (1).JPG



LRE - 445940 GLYCOL PART. FILTER INT. 11-07-13 (3).JPG



LRE - 445940 GLYCOL PART. FILTER INT. 11-07-13 (4).JPG