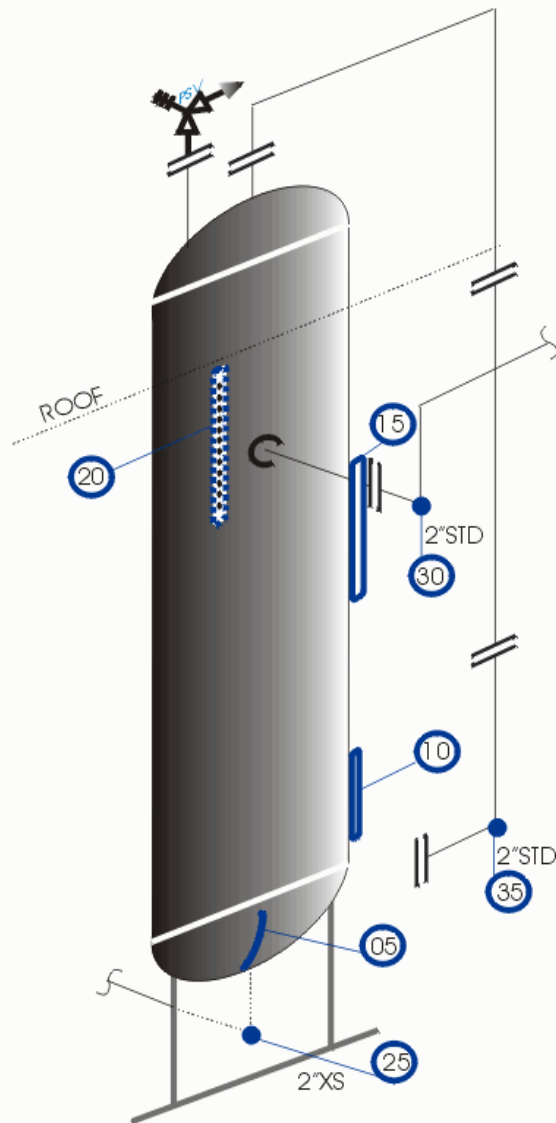


GENERAL PRESSURE VESSEL INFORMATION					
District: Central			Skid No.:		
Facility: Marion Lake			Location (LSD): 10-31-037-17W4		
Name & Equip No: Separator - MLV-9			Orientation: Vertical		
Company: Devon Canada			Cost Code:		
Status: Operating			Operating Province: Alberta		
ABSA					
Plant:			Vessel:		
Process:			Special:		
Amount(\$):					
PRESSURE VESSEL NAMEPLATE DATA					
Registration Number: 2813745			Registration Number (Other):		
Serial Number: VS-6710			CRN Number: K8258.2		
MAWP: 500.00 (psi)		3447.40 (Kpa)		AT temperature: 100.00 (F) 37.78 (C)	
Size (diam. x length): 24.00 x 90.00 (In) 609.60 x 286.00 (mm)			Manufacturer: LARSEN & D'AMICO MFG. LTD.		
X-Ray: RT3			Lining Or Coated:		
Year Built: 1992			Heat Treatment: No		
Code parameters:			Corrosion allowance: (In) 0.00 (mm)		
Joint efficiency: 0.85			Manway: No		
PIPING NAMEPLATE DATA					
Primary Flange Rating: 300			ASME B16.5 - Table 2-1.1 @ 150F: 740 (psi)		
Pressure Use For TMin: Vess Design Press			Piping Operating Press: 500 (psi)		
Stress Value: 20000 (psi)			E Value: 1		
Comments:					
SERVICE CONDITIONS-INDICATE ALL THAT APPLY					
Sweet		Sour		Oil	
Amine		LPG		Condensate	
				Gas	
				Water	
				Air	
				Glycol	
Other (Describe):					
COMPONENTS					
Name	Outside Diameter(in.)	Head Type	Material Type	Stress Value (PSI)	Nominal Thickness(Inch)
Shell	24.00		SA-516 70	17500	0.47
Head	24.00	Ellipsoidal	SA-516 70	17500	0.44
GENERAL COMMENTS					
NO ACCESS TO PSV					



Ultrasonic Corrosion Survey

OWNER	DEVON CANADA	REG. NO	A2813745	NOTES
DISTRICT	CENTRAL	NAME	SEPARATOR	
FACILITY	MARION LAKE	SIZE	24" X 7' 6"	
LSD	10-31-37-17W4	OTHER	MLV-9	

Separator 2813745

Vessel Summary

Last Inspection Date	Inspection Interval (months)	Short Term Corrosion Rate [in/yr]	Long Term Corrosion Rate [in/yr]	Remaining Half Life (years)	Next Inspection Date
Jan 23, 2006	60	0.00	0.00	99.0	Jan 23, 2011

Vessel Survey Readings

Point Number	Type	Survey Readings (inch)			Point Data (inch)			Calculations		
		Date	Low	Avg	Nom.	C.A.	Nom - CA	T Req (inch)	Long Term Corr Rate	Remaining Half Life
05	Head	Jan 23/06	0.467	0.485	0.437	0.000	0.437	0.392	0.000	99.00
10	Shell	Jan 23/06	0.500	0.502	0.472	0.000	0.472	0.398	0.000	99.00
Readings: 0.503, 0.503, 0.507, 0.500, 0.500, 0.503, 0.503, 0.500, 0.500, 0.503, 0.503, 0.500 Notes: The above readings were used to obtain the min and avg readings for the TML Comments: POINTS FROM T-B										
15	Shell	Jan 23/06	0.493	0.500	0.472	0.000	0.472	0.398	0.000	99.00
Readings: 0.503, 0.493, 0.500, 0.493, 0.497, 0.497, 0.500, 0.507, 0.503, 0.500, 0.503, 0.507 Notes: The above readings were used to obtain the min and avg readings for the TML Comments: POINTS FROM T-B										
20	Shell	Jan 23/06	0.493	0.497	0.472	0.000	0.472	0.398	0.000	99.00
Readings: 0.493, 0.510, 0.497, 0.493, 0.493, 0.497, 0.493, 0.493, 0.497, 0.497, 0.500, 0.497 Notes: The above readings were used to obtain the min and avg readings for the TML Comments: POINTS FROM T-B										

Separator 2813745

Piping Summary

Last Inspection Date	Inspection Interval (months)	Short Term Corrosion Rate [in/yr]	Long Term Corrosion Rate [in/yr]	Remaining Half Life (years)	Next Inspection Date
Jan 23, 2006	60	0.0000	0.0000	99.0	Jan 23, 2011

Piping Survey Readings

Point Number	Size	Type	Schedule	Survey Readings (inch)			Point Data (inch)		Calculations		
				Date	Low	Avg	Nominal	Mill Tolerance/CA	T Req (inch)	Long Term Corr Rate (in/yrs)	Remaining Half Life
25	2.00		XS	23 Jan/06	0.180	0.195		0.027	0.030	0.000	99.00
30	2.00		STD	23 Jan/06	0.140	0.155		0.019	0.030	0.000	99.00
35	2.00		STD	23 Jan/06	0.137	0.150		0.019	0.030	0.000	99.00

Provincial/Identification No:	2813745	Equip. Number:	MLV-9	Serial Number:	VS-6710
District:	Central	Facility:	Marion Lake		
Location:	10-31-037-17W4	Equip. Name:	Separator		

Inspected By:	Eric Jensen #000239	Inspection Date:	Jan 23, 2006
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External Inspection Items	Grade	Comments
Insulation Verify sealed around manways, nozzels, no damage present, and these is no egress of moisture	N/A	
External Condition Assesses paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)	Good	
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc	Good	
Skirt/Saddle Assess condition of paint, fire protectionm concrete. Look for corrosion, buckling, dents, etc. Look at vessel surface area near supports. Verify no signs of leakage at attachment to vessel and attachment welds are acceptable. Ground wire attached?	Good	
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation	Poor	ONLY 1 ANCHOR-BOLT 3 MISSING
Concrete Foundation Check for cracks, spalling, etc.	N/A	
Ladder/Platform Describe general condition, ensure support is secure to vessel, describe any hazards.	N/A	
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	Good	
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/Temp.	Good	
External Piping Ensure pipe is well supported. All clamps, supports, shoes, etc. in place. Look for evidence of structural overload, deflection, etc. Paint condition, external corrosion?	Fair	EXTERNAL CORROSION-MILD
Valving Ensure no leaks are visible. Valves are properly, supported and chained if necessary.	Good	
PSV Ensure PSV is set at pressure at or below that of vessel. Discharge piping is same size as inlet to valve and is properly supported and routed. Ensure no block valves between psv and vessel or if there are the are locked open.	N/A	NO ACCESS TO PSV
NDE Methods Was UT/MPI done on vessel (MI coordinator to review results)	Good	UT
Other	N/A	

Recommendations or corrective actions: (Vessel is Fit for Service or describe corrective actions required)

Chief Inspector:	PESL#:	Sign Off Date:	Status: Open
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Registration #:	2813745	Equipment Name:	Separator	Province:	Alberta
District:	Central	LSD:	10-31-037-17W4	Location:	Marion Lake
CRN:	K8258.2	Skid Number:		Service:	
Manway:	No	Coating:		Equipment Number:	MLV-9
MAWP (psi):	500.00 (psi)	Temp:	100.00 (F)	Serial Number:	VS-6710
Outstanding NCR's:	No	No.:	0		
General:					

Safety Valves

Side:	MAWP (psi)	MAWP (kPa)	PSV No.	Set Press (psi)	Set Press (kPa)	Capacity Imperial	Imperial Units	Capacity Metric	Metric Units
	500.00	3447.40			0.00		SCFM		
Status:	Operating		Examination Methods:				Access:	EXTERNAL	
							Cleaning:	none	

External Inspection

Inspection Date:	Jan 23, 2006	Inspection Interval:	60	Next Insp. Date:	Jan 23, 2011
Item	Grade	Inspection Comments			
Insulation	N/A				
External Condition	Good				
Leakage	Good				
Skirt/Saddle	Good				
Anchor Bolts	Poor	ONLY 1 ANCHOR-BOLT 3 MISSING			
Concrete Foundation	N/A				
Ladder/Platform	N/A				
Nozzle	Good				
Gauges	Good				
External Piping	Fair	EXTERNAL CORROSION-MILD			
Valving	Good				
PSV	N/A	NO ACCESS TO PSV			
NDE Methods	Good	UT			
Other	N/A				
Recommendations:				Inspected By:	Eric Jensen
				PESL#:	000239

INSPECTOR : I have witnessed/done the above inspections and certify that they have been done in accordance with our approved manual and that the information is accurate. I certify that the status of the Pressure equipment detailed here is:

Suitable to be returned to service: Yes **Repairs complete(AB-40 attached):** No

Repairs are still required: No **Suggested Inspection interval:** 60

Inspector: _____ **PESL #:** _____ **Signature:** _____ **Date:** _____

CHIEF INSPECTOR : I certify that the information on this report is true and all inspections as required by our Owner/User.:

Quality Assurance Program # _____ **which expires in** _____ **have been done.**