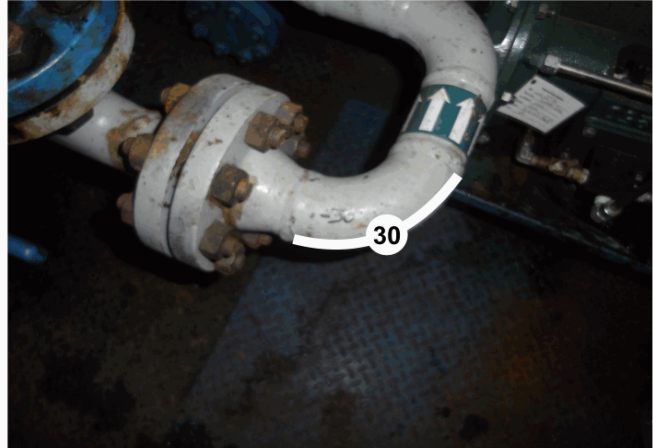
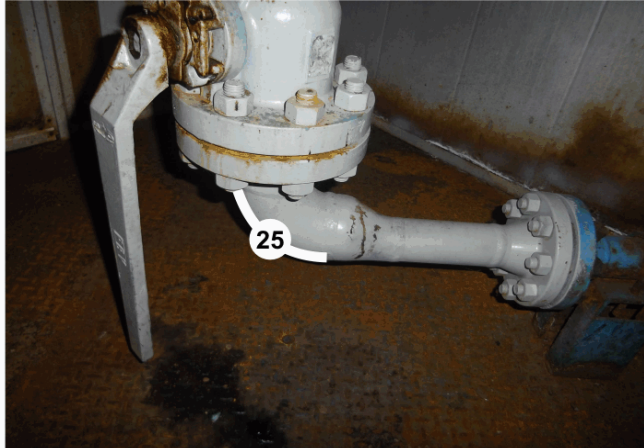
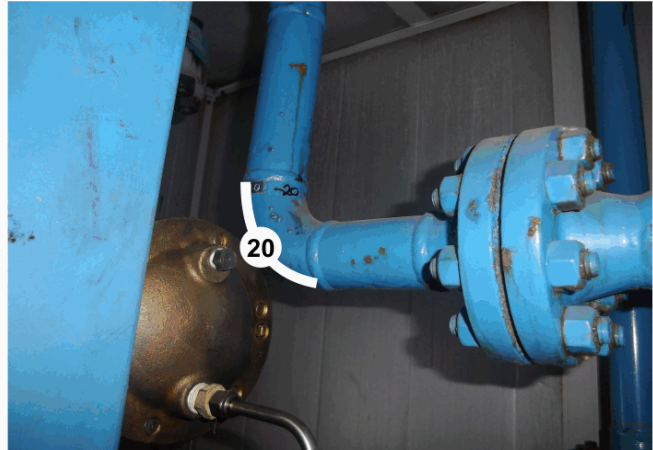


GENERAL PRESSURE VESSEL INFORMATION						
District: Central			Skid No.:			
Facility: Marion Lake			Location (LSD): 08-36-037-18W4			
Name & Equip No: Separator - MLV5			Orientation: Vertical			
Company: Devon Canada			Cost Code:			
Status: Operating			Operating Province: Alberta			
Unit:						
ABSA						
Plant:			Vessel:			
Process:			Special:			
Amount(\$):						
PRESSURE VESSEL NAMEPLATE DATA						
Registration Number: 2827038			Registration Number (Other):			
Serial Number: VS-6713			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 91.00(In)			609.60 x 311.40(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)	
			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: seamless piping assumed						
SERVICE CONDITIONS-INDICATE ALL THAT APPLY						
Sweet		Sour		Oil		Gas
Amine		LPG		Condensate		Air
Water						
Glycol						
Other (Describe):						
COMPONENTS						
Name	Joint Efficiency	Outside Diameter(in.)	Head Type	Material Type	Stress Value (PSI)	Nominal Thickness(Inch)
Shell	0.85	24.00		SA-516 70	17500	0.50
Head	0.85	24.00	Ellipsoidal	SA-516 70	17500	0.44
GENERAL COMMENTS						
NO MDR AVAILABLE.						





<b>OWNER: DEVON</b>	<b>SERIAL # VS-6713</b>	<b>NOTES</b>
<b>EQUIPMENT NAME: SEPARATOR</b>	<b>NB#</b>	
<b>REGISTRATION # 2827038</b>	<b>OWNER ID</b>	
<b>EQUIPMENT # MLV5</b>		

# ULTRASONIC CORROSION SURVEY REPORT

EQUIP NAME: Separator	SERIAL #: VS-6713	DISTRICT: Central
PROV REG: 2827038	CRN: K8258.2	FACILITY: Marion Lake
EQUIP #: MLV5		LSD: 08-36-037-18W4

## SUMMARY

TYPE	LAST INSPECTION	INSPECTION INTERVAL (YEARS)	CORROSION RATE (IN/YR)		REMAINING HALF LIFE (YEARS)	GOVERNING INSPECTION INTERVAL	NEXT INSPECTION DATE
			SHORT TERM	LONG TERM			
VESSEL	Jan 17, 2012	4.0	0.0007	0.0007	79.5	<b>REGULATORY</b>	<b>Jan 17, 2016</b>
PIPING	Jan 17, 2012	4.0	0.0009	0.0009	61.5		

## VESSEL SURVEY READINGS

POINT NUMBER	TYPE	POINT DATA (INCH)			DATE	SURVEY READINGS			T Req (inch)	CALCULATIONS		
		NOM.	C.A.	NOM-CA		LOW	AVG	short term corr rate		long term corr rate	remaining half life	
05	Head	0.4370	0.0000	0.4370	Jan 17/12	0.501	0.515	0.392	0.0007	0.0007	80.6	
					Aug 30/07	0.504	0.506	0.392				
Readings: 0.504, 0.510, 0.504, 0.506 Notes: The above readings were used to obtain the min and avg readings for the TML												
10	Shell	0.5000	0.0000	0.5000	Jan 17/12	0.506	0.515	0.398	0.0007	0.0007	79.5	
					Aug 30/07	0.509	0.513	0.398				
Readings: 0.509, 0.511, 0.510, 0.513, 0.512, 0.512, 0.514, 0.516, 0.518, 0.519 Notes: The above readings were used to obtain the min and avg readings for the TML												
15	Shell	0.5000	0.0000	0.5000	Jan 17/12	0.515	0.520	0.398	0.0007	0.0007	86.1	
					Aug 30/07	0.518	0.520	0.398				
Readings: 0.520, 0.520, 0.522, 0.518, 0.520 Notes: The above readings were used to obtain the min and avg readings for the TML												

## PIPING SURVEY READINGS

POINT NUMBER	TYPE	POINT DATA (INCH)			DATE	SURVEY READINGS			T Req (inch)	CALCULATIONS		
		NOM.	Mill Tol./CA	NOM-CA		LOW	AVG	short term corr rate		long term corr rate	remaining half life	
20	90L 2 STD	0.1540	0.0193	0.1347	Jan 17/12	0.141	0.155	0.030	0.0000	0.0000	99.0	
					Aug 30/07	0.141	0.155	0.030				
25	90L 3 XS	0.3000	0.0375	0.2625	Jan 17/12	0.269	0.280	0.044	0.0009	0.0009	124.4	
					Aug 30/07	0.273	0.280	0.044				
30	90L 2 XS	0.2180	0.0273	0.1907	Jan 17/12	0.202	0.215	0.030	0.0009	0.0009	95.1	
					Aug 30/07	0.206	0.215	0.030				

**Field Inspection Report**

**- Devon Canada**

**17,362**

<b>Registration #:</b>	2827038	<b>Equipment Name:</b>	Separator	<b>Province:</b>	Alberta
<b>District:</b>	Central	<b>LSD:</b>	08-36-037-18W4	<b>Location:</b>	Marion Lake
<b>CRN:</b>	K8258.2	<b>Skid Number:</b>		<b>Service:</b>	
<b>Manway:</b>	No	<b>Coating:</b>		<b>Equipment Number:</b>	MLV5
<b>MAWP (psi):</b>	500.00 (psi)	<b>Temp:</b>	100.00 (F)	<b>Serial Number:</b>	VS-6713
<b>Outstanding NCR's:</b>	No	<b>No.:</b>	0		
<b>General:</b>					

**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		
<b>Status:</b>	Operating		<b>Examination Methods:</b>			<b>Access:</b>	<b>Cleaning:</b>		

**External Inspection**

<b>Inspection Date:</b>	Jan 17, 2012	<b>Inspection Interval:</b>		<b>Next Insp. Date:</b>	
<b>Item</b>	<b>Condition</b>	<b>Inspection Comments</b>			
Insulation	N/A				
External Condition	Accept	Good overall condition			
Leakage	Accept	No signs of any leakage			
Skirt/Saddle	Accept				
Anchor Bolts	Accept	Secured to metal floor			
Concrete Foundation	N/A				
Ladder/Platform	N/A				
Nozzle	Accept				
Gauges	Accept	Good working condition			
External Piping	Accept	Well connected and supported			
Valving	Accept				
PSV	Concern	NO safe access to the PSV data. Icy conditions and roof is very high.			
NDE Methods	Accept				
Other	N/A				
<b>Recommendations:</b>	I recommend gathering the PSV information for this vessel through the service records.			<b>Inspected By:</b>	Jay Aloisio

**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:**

**Repairs complete(AB-40 attached):**

**Repairs are still required:**

**Suggested Inspection interval:**

**Inspector:** Jay Aloisio

**Signature:** \_\_\_\_\_



**Date:** Jan 17, 2012



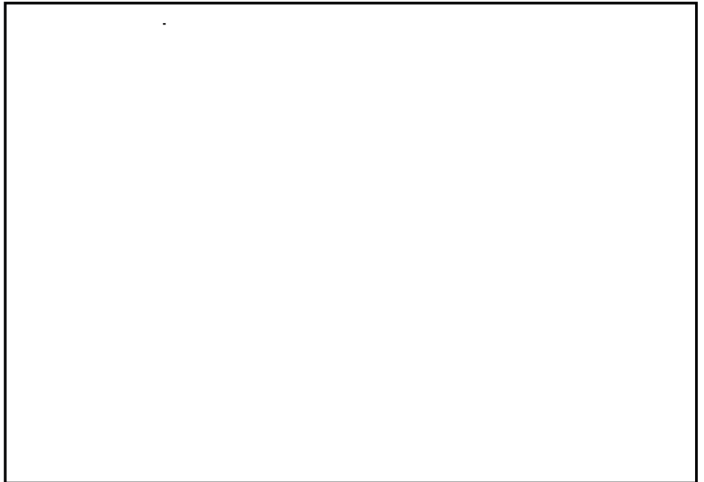
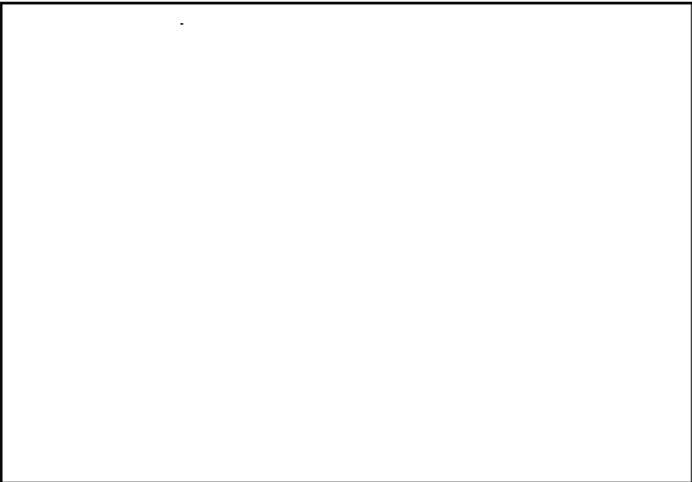
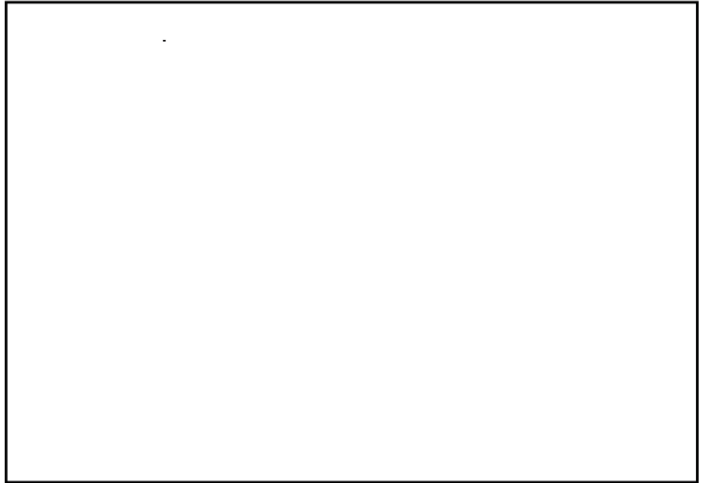
NAMEPLATE



OVERALL



PSV



**OWNER: DEVON**  
**EQUIPMENT NAME: SEPARATOR**  
**REGISTRATION # 2827038**  
**EQUIPMENT # MLV5**

**SERIAL # VS-6713**  
**NB#**  
**OWNER ID**

NOTES

