Canadian Natural Resources Ltd. GENERAL PRESSURE VESSEL INFORMATION Job# 105.00390												
District: Fort St J	ohn, BC	Skid No.										
	<u> </u>	Location (LSD): b-88-H/94-H-01										
Facility: Ladyfern			Lucauum (LSD): D-88-H/94-H-01									
Vessel Name Equipment Number: Glycol Contactor												
Orientation: Vertical												
Status: In Service Regulatory Inspection												
PRESSURE VESSEL NAMEPLATE DATA												
"A" or "G" o	r "S" (Sask.) or BC R A0516940	CRN Number: P-1238.213										
Vessel serial number	r: 2004_7280_01 <i>C</i>	Size: 24 in X 30 ft										
Shell thickness: 25.		Shell material: SA-516-70MT										
Head thickness: 27.		Head material: SA-516-70MT										
Tube wall thickness:		Tube material:										
Tube diameter:		Tube length:										
Channel thickness:		Channel material:										
Design pressure	Operating pressure		Shell: 7900 Kpa									
	Tubes:			Tubes:								
Design Temp.	Shell: 66 deg C			Operating temperature		Shell: 30 deg C.						
	Tubes:	Tubes:					Tubes:					
X-ray: RT-2		Heat treatment: No										
Code parameters: A	SME Sec VIII	Coated: No										
Manufacturer: Alco	Gas & Oil Ltd.	Year built: 2004										
Corrosion allowance	e: 3.2	Manway: No										
	Pl	RESSURE SAFETY	VALV	'E NAMEPLATE	DATA							
PSV Tag #	Manufacture Model #			Serial # Set P		essure	Capacity	Service				
			(PS		SI)	(scfm)	Date					
1747F	Mercer	81-34251T27G21		49380	9674 Kpa		11233	06/2010				
CRN#	Service By	Block Valve		Location	Size		Code Stamp					
0G2606.5C	Unified	No	I	Lower Shell	1.5"X 2"		UV/NB					
	SERV	VICE CONDITIONS	S-INDI	CATE ALL THA	AT APPL	Y		<u> </u>				
Sweet X	Sour	Oil			Gas X		Water X					
Amine	LPG Con-			densate		Air		Glycol X				
Other (Describe):												
Inspection IntervalPSV Service Interval												
(Determined by MIC in conjunction with Chief Inspector following guidelines of CNRL's Owner-User Inspection Program)												
Reports reviewed and accepted by: Mechanical Integrity CoordinatorDate												

External Inspection Items	G	F	Р	N/A	Comments
				- 1// - 1	
Insulation Verify sealed around manways,					Vessel is not insulated.
nozzles, no damage present, and there is no				X	
egress of moisture.					
External Condition Assess paint condition,	X				Paint is in good overall condition – No chipped or exposed
areas peeling, record any corrosion, damage, etc (record location, size and depth of	Λ				metal - no previous corrosion.
corrosion or damage)					
Leakage Record any leakage at flanges,					No leaking detected.
threaded joints, weep holes on repads, etc.	X				140 leaking detected.
Saddle Assess condition of paint, fire					No distortion to skirt – no leaks at skirt to shell welds.
protection, and concrete. Look for corrosion,					No exposed metal – no corrosion.
buckling, dents, etc. Look at vessel surface					Ground cable attached to skid unit.
area near supports. Verify no signs of leakage	X				Ground cubic attached to shid units
at attachment to vessel and attachment welds					
are acceptable. Ground wire attached?					
Anchor Bolts Hammer tap to ensure secure.					Contactor is firmly bolted to skid floor - no signs of
Look for cracking in treads or signs of	X				deformation.
deformation.					
Concrete foundation Check for cracks,				X	None.
spalling, etc.				Λ	
Ladder / Platform Describe general					None.
condition, ensure support is secure to vessel,				X	
and describe any hazards.					
Nozzle Assess paint, look for leakage, and					All threads connections fully engaged.
ensure stud threads are fully engaged. Record	X				No deflection – no leaks.
any damage, deflection, etc. Are nozzles					No gussets.
Gauges Ensure gauges are visible, working,	₹7				Gauges are visible, appears to be functional, no leaks and
no leakage, and suitable for range of MAWP/	X				suitable for range of MAWP/Temp.
Temp.					Pressure gauge: 0 - 11000 Kpa - 7900 Kpa @ gauge.
External Piping Ensure pipe is well					Temperature gauge: -20 – 120 deg C – 30 deg C @ gauge. Well supported – no deflection – all clamps and shoes in
supported. All clamps, supports, shoes, etc. in					place.
place. Look for evidence of structural	X				All piping is painted and in good condition – no exposed
overload, deflection, etc. Paint condition,	2				metal or surface corrosion found.
external corrosion?					metal of surface corrosion found.
Valving Ensure no leaks are visible. Valves	<u> </u>				Well supported – no leaks.
are properly supported and chained if	X				T. K. K. T.
necessary.					
PSV Ensure PSV is set at pressure at or below					Located on the gas inlet piping - set at the Contactors
that of vessel.					MAWP.
	X				Discharge piping is the same size as the inlet to PSV.
					No block valve present.
	L				Seal is intact. PSV vents to Flare.
NDE methods Was UT/ MPI done on vessel	X				Ultrasonic thickness survey carried out-no metal thickness
(MI coordinator to review results)	<u> </u>				detected below nominal minus corrosion allowance.
Other					

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

(MIC to review corrective actions with Operations, discuss with Chief Inspector where necessary, and get remedial action implemented)

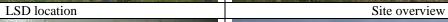
Recommendations: 1. No recommendations at this time.

Summary: This vessel is in good over all condition, visual external and ultrasonic thickness survey carried out-no metal thickness detected below nominal minus corrosion allowance.

Vessel is fit for service.

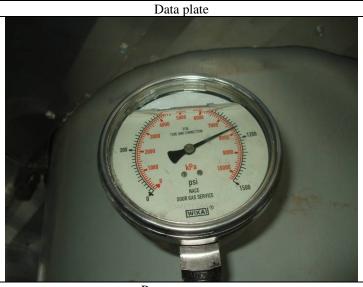














Overview

Pressure gauge Overview





Temperature gauge



PSV service tag

PSV service tag PSV location