

Incident Summary (Reference #5585045) (Final)

SUPPORTING INFORMATION	Incident Date		April 01, 2016	
	Location		Near Prophet River, BC	
	Regulated industry sector		Boiler and Pressure Vessel	
	Impact	Injury	Qty Injuries	None
			Injury description	None
			Injury rating	None
	Damage		Damage description	Crack in weld on nozzle neck.
			Damage rating	Moderate
	Incident rating		Moderate	
Incident overview		Nozzle weld failure on 3rd Stage Suction bottle resulting in natural gas leaking through weld.		
INVESTIGATION CONCLUSIONS	Site, system and components		This site is a remote industrial gas facility. The component is part of a large compressor engine used in raising system pressure for further product processing	
	Failure scenario(s)		<ul style="list-style-type: none"> - Vibration from compressor engine. - Suction bottle mass on branch connection nozzle - Rigid piping assembly connected to suction bottle adding to nozzle stress - Design of piping assembly and suction bottle attached to compressor - Please see attached photos and owner's integrity management field installation report 	
	Facts and Evidence		<ul style="list-style-type: none"> - Combined contributing factors attribute to weld failure. 	
	Causes and Contributing Factors		<ul style="list-style-type: none"> - Vibration and mechanical design are the probable causes resulting in the nozzle weld failure. 	