

API 510 PRESSURE VESSEL INSPECTION REPORT

GENERAL INFORMATION

CLIENT:	Tourmaline Oil Corporation	REPORT NUMBER:	
PROJECT:		INSPECTION DATE:	9/22/2025
FACILITY:	Septimus Compressor Station	APPLUS JOB NO.:	4051051
LOCATION / LSD:	09-36-81-19W6M	ORIENTATION:	<input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical
VESSEL NAME:	Glycol Reboiler	STATUS:	<input type="checkbox"/> In-service <input checked="" type="checkbox"/> Out of Service
EQUIPMENT NO.:		INSPECTION TYPE:	<input checked="" type="checkbox"/> Regulatory <input type="checkbox"/> Inventory <input checked="" type="checkbox"/> VE <input type="checkbox"/> VI

PRESSURE VESSEL NAMEPLATE DATA

PROV. REG. NO.:	V116559		CRN NUMBER:	NON-CODE	
SERIAL NUMBER:	2004-7269-05		SIZE:		
MANUFACTURER:	ALCO GAS & OIL PRODUCTION EQUIP.		CODE PARAMETERS:	NON-CODE	
YEAR BUILT:	2004		MANWAY ACCESS:		
RADIOGRAPHY:			HEAT TREATMENT:	NO	
COATED:			CORR. ALLOWANCE:	NIL	
SHELL THICKNESS:	0.250"		SHELL MATERIAL:	SA 36	
HEAD THICKNESS:	0.250"/0.375"		HEAD MATERIAL:		
TUBE THICKNESS:			TUBE MATERIAL:		
TUBE DIAMETER:			TUBE LENGTH:		
DESIGN PRESSURE:	SHELL:	0 PSI	OPERATING PRESSURE:	SHELL:	
	TUBES:			TUBES:	
DESIGN TEMPERATURE:	SHELL:		OPERATING TEMPERATURE:	SHELL:	
	TUBES:			TUBES:	

PRESSURE VESSEL SERVICE INFORMATION

SELECT ALL THAT APPLY

Sweet Sour Oil Gas Water Produced Water Steam LPG NGL Propane Condensate
 Glycol Amine Pulp Air Other

PRESSURE SAFETY VALVE (PSV) NAMEPLATE DATA

	PSV 1	PSV 2		PSV 1	PSV 2
PSV TAG NUMBER:			PSV SERIAL NO.:	BTOB283-1	
MANUFACTURER:	Wellmark		MODEL:	W1392V-4	
LOCATION:	Reboiler top shell		BLOCK VALVE:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
SIZE:	2 x 2		CAPACITY:	N/S	
SET PRESSURE:	3 PSI		SERVICE DATE:	06/2015	

INSPECTION INTERVAL

INSPECTION INTERVAL:		PSV SERVICE INTERVAL:	
DATE OF NEXT INSPECTION:			

REPORT CERTIFICATION

The signatures below certify that inspections/tests have been completed in accordance with the identified inspection strategy and that the specified equipment is considered fit for service until the date of next inspection.

	NAME	SIGNATURE	CERTIFICATION	DATE
INSPECTED BY:	Andrew Neis		API 510 # 48747 / IBPV # 0857	September 22, 2025

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EXTERNAL INSPECTION

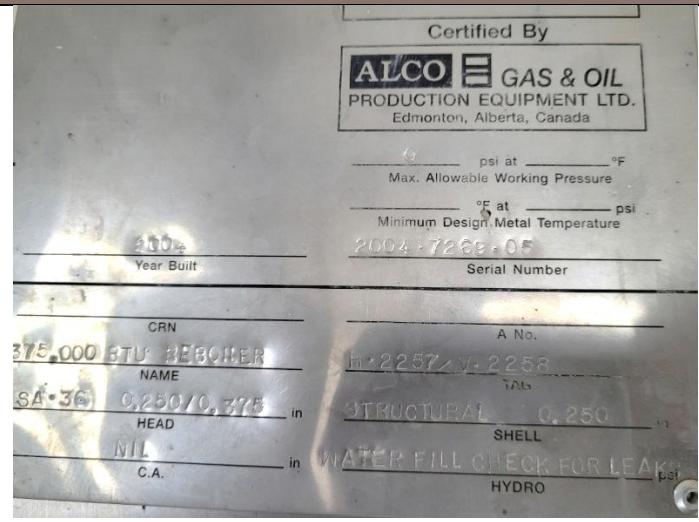
DESCRIPTION	CONDITION	COMMENTS
Insulation Verify sealed around manways, nozzles, no damage present, and there is no egress of moisture.	Good	Reboiler insulation is in good condition – no torn or open sections. Caulking is intact. No egress of moisture
External Condition Assess paint condition, areas peeling, record any corrosion, damage, etc. (record location, size and depth of corrosion or damage)	Good	Paint is in good overall condition – no corrosion or mechanical damage – no bare metal.
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	N/A	No evidence of previous leakage
Saddle/Skirt Assess condition of paint, fire protection, 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	Saddle - paint is in good condition – no corrosion, buckling or dents. Attachment welds are acceptable – no sign of leaks. Skid is grounded
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	Good	Securely bolted to the skid deck
Foundation Check for cracks, spalling, etc.	N/A	Steel skid
Ladder / Platform Describe general condition, ensure support is secure to vessel, describe any hazards.	N/A	None
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	Good	Paint is in good condition – no leakage. No damage or deflection
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.	Good	Temperature gauge 50-500° F
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?	Good	Piping is well supported – all clamps, supports, and shoes are in place. No evidence of structural overload. Paint is in good condition – no corrosion
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	Good	No leaks – well supported
Sight Glasses, Bridles, Auxiliary Equipment Are sight glasses clean? Any leakage or concerning vibration? Ensure any added supports are intact.	Good	Accumulator sight glass is in good overall condition – minor fouling
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 they are locked open.		PSV is set at 3 PSI above MAWP – discharge piping is properly supported and routed – no block valve. PSV is due for service
VISUAL EXTERNAL SUMMARY:	Visual external inspection carried out – vessel is in good overall condition. Equipment has been out of service for several years. No corrosion or mechanical damage. No sign of leaks. No items of concern. PSV requires service. Still column was not in the vicinity at time of inspection.	
	Fit for Service	
RECOMMENDATIONS:	1. Perform an internal inspection on the both the reboiler and accumulator prior to returning to service	
NCRs / CORRECTIVE ACTIONS / REPAIRS REQUIRED:	None	
SUMMARY OF NDE RESULTS:	Ultrasonic thickness testing carried out – corrosion detected throughout the to shell of the accumulator – minimum thickness recorded was 4.0mm (nominal 6.4mm)	

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PHOTOS



Skid Overview



Nameplate



Vessel overview



Burner assembly

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Overview



Saddle support



Accumulator has removable coil



Temperature gauge

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Still column removed at time of inspection



PSV

Owner Location Position	Crew Energy 9-36-81-19: Septimus Reboiler Shell	P 155379
Serial Number	BTOB283-1	
Mfg / Model	Wellmark / W1392V-4	
Style / Size	Threaded / 2.0 x 2.0	
Job Number	60519	
Date Tested	2015/06/14	
Technician	Tyler Tindill	
Set / Back Press	3 PSIG	PSIG
ASME Capacity	SCFM	

PSV tag