

Inspection Report – Tank Internal and External

Document #: AI FR 004

Page: 1 of 4

	Genera	al Tank	Informati	ion					
District: Shallow Gas: Shackleton			F-tag Nu	ımber:	E48766	Serial #: 7	'439		
Area & Facility: Lancer				E-tag Number: E48766 Serial #: 7439 Location (LSD): 12-26-021-20W3M					
Inspector Name: John David Kobe	elskv Com	npany:		,	ing Services		Aug 12, 2014		
·	roduced Water Tank			,	<u>g</u>		JST:		
	nternal: 🗸								
Status: In Service (including n		Out	Service:			Stock:			
	Ta	ank Sta	tic Data						
Fil	out all forms as complete	ely as po	ssible. <u>All ir</u>	nformatio	on is importan	t!			
Manufacturer: Argo Sales Ltd.				Year Built: 2007					
Tank: Single Wall: 🕡 Double Wall: 🗌				Manway?: Yes: ☑ If yes Size: 7315.2 x 14630.4 mm No: ☐					
Interstitial space?: Gauge: ☐ Site glass: ☐			Fire Tube Present?: Yes: No: V						
Is Tank Elevated?: Yes: ✓	No:		Conocity	. 75/) () bbl		_		
Fully Visible?: Yes: 🕡	No:		Capacity: 750.0 bbl						
Tank Construction Material:									
Welded Steel: 🕡 Steel Bolt	ed: Galvar	nized B	olted:		Fibreglass:	Plastic			
Bottom Material: Not Stated			Bottom /	Floor T	hickness:	6.35 mm			
Shell Material: Not Stated			Shell Thi	ckness:	4.76 mm				
Deck Material: Not Stated			Deck Thi	ickness	6.35 mm				
Corrosion Allowance: Not S	tated		Tank Din	nension	s: Height/Le	7315.20 ength:mm Dia	meter: 4724.4 ft		
Construction Code: Not Stated			Roof Style: Flat: Cone: None:						
Internally Coated?: Yes: 🕡	No:		Coating / Liner Type: Enviroline 376						
If yes, coverage?: Full:	Partial:								
Internal Cathodic Protection?: Yes: ✓ No: □			External Cathodic Protection?: Yes: No:						
If yes are there anodes?:	Yes: 🕢 No: 🗌		If yes ind	licate ty	pe: Anodes	: Induced C	urrent:		
Design Temp: Not Stated			Design Pressure:						
X-Ray: Not Stated									
Pressui	e / Vacuum Relief - E	Burst P	late – Thi	ef Hatc	h Nameplat	te Data			
Device Tag #: Serial #:	CRN #:	Мос	del #:	Man	ufacturer:	Size:	Code Stamp:		
No PSV.									
Set Pressure: Capacity: (scfm)	Service Date:	Servic	ced By:		tion Block /alve:	Isolation Block Valve Location:			
				Yes:	□ No: □				
	Tank Conten	nts Indic	cate All Th	hat App	oly				
Sweet V Sour Oil I	Diesel Water 🗸	Am	nine 🗌	Conde	nsate 🗌	Glycol Meth	nanol 🗌		
Other (Describe):									



Page: 2 of 4



Inspection Report – Tank Internal and External

External Inspection Items	Good	Poor	N/A	Comments
Insulation: Verify seals around manways, nozzles, no damage present, and there is no ingress of moisture.	✓			
External Condition: Assess paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)	✓			
Leakage: Record any leakage at flanges, threaded joints, weep holes on repads, etc.	✓			None noted
Base: Assess condition of paint, fire protection, concrete. Look for corrosion, buckling, dents, etc. Is tank mounted above ground water level – on pilings? Ground wire attached?	√			
Anchor Bolts: Hammer tap to ensure secure. Look for cracking in threads or signs of deformation. Is tank resting on deck – welded to supports?	√			
Concrete Foundation: There may be a concrete ring under the tank. Check for cracks, spalling, etc.			✓	
Ladder / Platform: Describe general condition, ensure supports are secure, describe any hazards.	✓			
Nozzle: Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	✓			
Gauges: Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp. Remember some tanks require fuel gas or other positive protection so a pressure gauge may be installed.			✓	
External Piping: Ensure piping is well supported. All clamps, supports, shoes, etc. in place. Look for evidence of structural overload, deflection, etc. Paint condition, insulation condition, any wet insulation, any external corrosion?	•			
Valves: Ensure no leaks are visible. Valves are properly supported and chained if necessary.	✓			
Rupture Disk/Thief Hatch: Some tanks have a positive pressure gas blanket. There may be a vacuum breaker – have a good look and check serviceability tag.			✓	No Access
NDE Methods: Was UT/ MPI done on tank and why			✓	
Secondary Containment: This may be a double walled tank with a vacuum gauge or level gauge indicator. Has the interstitial space been compromised? Could also be a concrete or steel dike with vinyl liner –			✓	



Inspection Report – Tank Internal and External

Document #: AI FR 004

Page: 3 of 4

Internal Inspection Items	Good	Poor	N/A	Comments
Coating: Assess coating. Describe area coated, general condition of coating. Look at nozzles, coupling, and areas of most severe corrosion to ensure coating is intact. If coating is in poor condition make decision now if re-coating necessary? If so, when?	>			There were approximately 5 small chips in the coating right at the manway. These were not repaired. The rest of the coating is in very good condition.
Anodes: How many, type, condition, % consumed? Are they being replaced?	✓			There is 1 anode that is approximately 5% consumed.
Internal Piping: Is there any? If so, carbon or stainless steel? Describe condition, dents, corrosion, erosion, etc. Ensure supports are secure and any bolts are suitable for future use.	✓			The internal piping is stainless steel.
Float: Intact and in place – guide cables attached? Is it functional?	✓			
Baffles, deflector plates, etc.: If present, describe condition. Look closely at welds attached to tank wall.			✓	
Bottom: Note all corrosion, erosion or mechanical damage.	✓			
Deck: Note all corrosion, erosion or mechanical damage.	✓			No access
Shell Sections: Record number of shell sections. Record location, size and depth of all erosion, corrosion or mechanical damage. Describe general condition.	✓			4 shell sections. The upper two sections still have some sludge on them.
Fire Tube / Heat Medium Coil: Is it in place? Anchored? Is it clean? Condition of Firetube?			√	
Welds Inspect all welds, including attachment welds. Document corrosion and pitting. Are all nozzles back welded?	√			
Repairs Required: If yes, ensure procedure laid out in API 653 is followed. If coating repairs were performed ensure to document the size and number of areas repaired. If contractor is involved in repairs then identify repair company.	•			The small chips at the manway were not repaired at the time of inspection.
NDE: Was any NDE done: and results:	✓			A UT survey was performed with all readings above nominal.
Subject to Leak Test (UST) Y: ☐ N: ✓ Last Integrity Test Date - Type – Results?	✓			
Monthly Visual completed? Y: ✓ N: ☐ View Operations Records & Comment		✓		Not always completed.
Other:				



Inspection Report – Tank Internal and External

Document #: AI FR 004

Page: 4 of 4

Inspection Summary – Review And Acceptance

Observation Summary: There were 5 small chips in the coating at the manway that were not repaired at the time of inspection. The tank is in good condition. Should include amount of sludge; roof, floor, wall, firetube, coil condition (corrosion pitting depths); repairs done; any additions, (ie lowering sline); you may want to make a sketch; are there any recommendations for next inspection. Remember, the next inspection may not be done some time and the inspection may be done by someone else, so the more information the better. Recommendations Summary: None Action Items Required? NCR: Critical Repair: Deferred Repair: None	suction
ine); you may want to make a sketch; are there any recommendations for next inspection. Remember, the next inspection may not be done some time and the inspection may be done by someone else, so the more information the better. Recommendations Summary: None Action Items Required? NCR: Critical Repair: Deferred Repair:	
Action Items Required? NCR: Critical Repair: Deferred Repair:	
Action Items Required? NCR: Critical Repair: Deferred Repair:	
None	
s tank Suitable for Continued Service?: Yes 🗹 No: 🗌 Designated Inspection Interval:	
nspector Signature: Company: Integrity Testing Services Date: Au	ug 12, 2014
Review & Acceptance by Enerplus Inspector: Date:	
Attachments to this Report: (NDT Reports, Photo's etc.)	