

# AERIAL COOLER INSPECTION REPORT

(Metric)

Page 1 of 4  
Rev. 8-06-08

Facility: **LLOYDMINSTER SOUTH BOOSTER** Date: **August 18, 2010** Report #: **IR100818RPLp**

Area Supervisor: **AL HINZ** W.O. / C.C.# **77275**

## STATIC DATA

Alberta Reg. #:	CRN:	National Board #:
Equipment Number: <b>62045575</b>	Notification #: <b>-</b>	Classification: <b>-</b>
Manufacturer: <b>AIR COOLED EXCHANGERS INC</b>	Serial Number: <b>01543-3</b>	
Equip. Description: <b>LUBE OIL COOLER</b>	Location (LSD): <b>07-30-048-01W4</b>	
Equipment Tag #: <b>-</b>	Year Built: <b>2001</b>	Company I.D.#: <b>BC-158055</b>
Province Installed: <b>ALBERTA</b>	Registration #: <b>-</b>	Skid / Building #: <b>-</b>
Nameplate Attached: <b>YES</b>	Legible: <b>YES</b>	U1A Available: <b>NO</b>

MAWP: <b>1724</b> Kpa	Capacity: <b>-</b> m <sup>3</sup>	Radiography: <b>NO</b>	Insulated: <b>NO</b>
MAWT: <b>112</b> °C	Efficiency: <b>-</b>	Stress Relief: <b>NO</b>	Position: <b>VERTICAL</b>
MDMT: <b>-29</b> °C	Code Stamp: <b>U</b>	Ext. Coating: <b>YES</b>	Support: <b>-</b>

Header Box Size:	Depth: <b>152</b> mm	Width: <b>162</b> mm	Height: <b>610</b> mm	Overall Length: <b>2108</b> mm
Tube Size:	O.D. <b>16</b> mm	I.D. <b>-</b> mm	No. of Tubes <b>44</b>	Test Pressure: <b>-</b> kpa

	Material	Thickness	Corrosion Allowance
Tube sheet	N/A	- mm	- mm
Plug sheet	N/A	- mm	- mm
Wrapper plates	N/A	- mm	- mm
End plates	N/A	- mm	- mm
Tubes	N/A	- mm	- mm
Tube Fins	N/A	- mm	- mm

Nozzle Description	I.D. #	NPS	Flange Rating	Type	Material	Thickness	Length
Inlet	-	<b>51</b> mm	<b>150</b> #	<b>RFWN</b>	<b>SA-106B</b>	<b>8.7</b> mm	<b>152</b> mm
Outlet	-	<b>51</b> mm	<b>150</b> #	<b>RFWN</b>	<b>SA-106B</b>	<b>8.7</b> mm	<b>152</b> mm

## PROCESS DATA

Product Description: <b>LUBE OIL</b>	Service: <b>SWEET</b>
Operating Pressure: <b>-</b> Kpa	Operating Temperature: <b>-</b> °C

## PSV STATIC DATA

Tag Number: <b>-</b>	Manufacturer: <b>TAYLOR</b>	
Company I.D. #: <b>-</b>	Model # / Type: <b>T-8200-1</b>	Equipment #: <b>-</b>
Serial Number: <b>7907-20</b>	CRN: <b>OG1316.2C</b>	Code Stamp: <b>UV NB</b>
Inlet Size: <b>25</b> mm	Rating: <b>-</b> #	Set Pressure: <b>1379</b> Kpa
Outlet Size: <b>25</b> mm	Rating: <b>-</b> #	Capacity: <b>761</b> SCFM
Location of PSV: <b>OIL COALESCING FILTER INLET PIPING</b>		

## INSPECTION DETAILS

Inspection Reason: <b>CODE INSPECTION</b>	Inspections Required: <b>VE</b>						
Inspection Test Plan: <b>-</b>	Inspection Type Used: <b>VE</b>						
Last Inspection Date: <b>-</b>	Next Inspection Type: <b>VE</b>						
Next Inspection Due: <b>2015</b>	Outstanding Repairs: <b>NO</b>	RBI Category: <b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>		

## VESSEL STATUS

Integrity Status: <b>SUITABLE FOR CONTINUED SERVICE</b>	Inventory Status: <b>ISF</b>
This IR completes a thorough inspection; reschedule as indicated. <b>YES</b>	Partial inspection; do not reschedule. <b>-</b>

Facility:	LLOYDMINSTER SOUTH BOOSTER	Date:	August 18, 2010	Report #:	IR100818RPLp
-----------	----------------------------	-------	-----------------	-----------	--------------

## INSPECTION SUMMARY

An inspection to verify the equipments integrity was done by VE.  
 There were no rejectable defects observed at this time; the vessel can be recommended fit for service.  
 There are no recommendations to be made at this time.  
 There were no repairs performed that were related to this inspection.  
 No NCR's were issued at this time.  
 No IDR's were issued at this time.  
 There was no external NDE performed during this inspection.  
 There was no internal inspection performed at this time.  
 There was no internal NDE performed during this inspection.  
 The nameplate is in tact and legible.  
 The pressure retaining welds are in tact with no evidence of deterioration or visible cracking.  
 The cooler's ground connection is through the skid's ground rod.  
 The cooler tubes and fins are in fair condition.  
 The fan was in operation at time of inspection; no visible defects were noted.  
 The plugs are tight and free of leaks.  
 The cooler is protected by a PSV that is in fair condition.  
 The cooler is painted with no notable coating defects.  
 The piping and piping attachments are in fair condition with no detectable leaks.  
 The piping clamps and supports are tight and in good condition.  
 The piping bolt up grading is B7 and 2H.  
 The attached piping is painted with no notable defects.

## RECOMMENDATIONS

## REPAIRS COMPLETED

## INSPECTION OBSERVATIONS

### NON COMPLIANCES ISSUED

## INSPECTION DEFICIENCIES ISSUED



Facility: <b>LLOYDMINSTER SOUTH BOOSTER</b>	Date: <b>August 18, 2010</b>	Report #: <b>IR100818RPLp</b>
---	------------------------------	-------------------------------

## EXTERNAL VISUAL INSPECTION

ID	Description	Condition	Location	NCR	Comments
<b>GENERAL</b>					
V2	Corrosion	No			Acceptable
V3	Leaks	No			Acceptable
V7	Heads	Fair			Acceptable
V9	Electrical Ground	Fair			Acceptable
V11	Coating/Painting	Fair			Acceptable
V13	Gauges/Site Glass	Fair			Acceptable
V14	Shell	Fair			Acceptable
<b>SUPPORTS</b>					
V21	Other (Please Explain)	Fair			Acceptable
<b>CONNECTIONS</b>					
V33	Nozzles	Fair			Acceptable
V37	Bolting	Fair			Acceptable
V38	Flanges	Fair			Acceptable
<b>RELIEF DEVICE</b>					
V51	Other (Please Explain)	Fair			Acceptable
V52	Corrosion	No			Acceptable
V53	Leaks	No			Acceptable
V54	Restricted Inlet/Outlet	No			Acceptable

## EXTERNAL NDE

## INTERNAL VISUAL INSPECTION

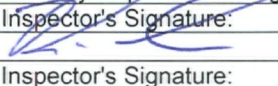
## INTERNAL NDE

## PRESSURE TESTS

Test Completed: -	Test Pressure: -	Kpa	Test Acceptable: -	Test Report #: -
-------------------	------------------	-----	--------------------	------------------

## INSPECTOR CERTIFICATION AND ACCEPTANCE

I, the undersigned, certify that the equipment stated above has been inspected in accordance with the assigned task list and that the statements within this report are correct and represent my inspection findings.

External Inspector's Name:	Inspector's Certification:	Inspector's Signature:	Date:
<b>REMI LACASSE</b>	<b>API 510</b>		<b>AUGUST 18, 2010</b>
Internal Inspector's Name:	Inspector's Certification:	Inspector's Signature:	Date:
-	-	-	-

## CHIEF OR LEAD INSPECTOR'S ACCEPTANCE AND SCHEDULE CONFIRMATION

Inspector's Name:		Inspector's Certification:		Inspector's Signature:		Date:	
RAY TRACHUK							
Vessel Inspection Interval:	Leave "As Is":	Change to:	PSV Inspection Interval:	Leave "As Is":	Change to:		
5	Years	Years	4	Years			Years

Office Use Only: Report Entered to SEQA Database by: \_\_\_\_\_ Date: \_\_\_\_\_  
Static Data Verified by: \_\_\_\_\_ Date: \_\_\_\_\_

Facility: LLOYDMINSTER SOUTH BOOSTER

Date: August 18, 2010

Report #: IR100818RPLp



NAMEPLATE



OVERALL VIEW



OVERALL VIEW