

Invoice	19-121
File	CTI121 (BASELINE DEMO)
Date	9/16/2019

Coil String baseline demo

INSPECTION REPORT

Name Demo Company

Address 987 Yourroad Ave. Your City, AB. 12345

Contact Garrett Sears

Coiled Tubing baseline demo

Size	60.30mm	2.375"
Wall	5.18mm	.204"175"
Length	6350m	
Grade	HT-95-C	
Direction	Inspection performed	core to tail

SUMMARY

Baseline inspection was performed tail to core from a xxx shipping spool to xxxxx Energy work reel 110R02. All Bias welds were manually measured and compared to the supplied WLR. Multiple external anomalies indicated throughout this entire inspection.

On all sides of the tubing. Multiple repairs were performed.

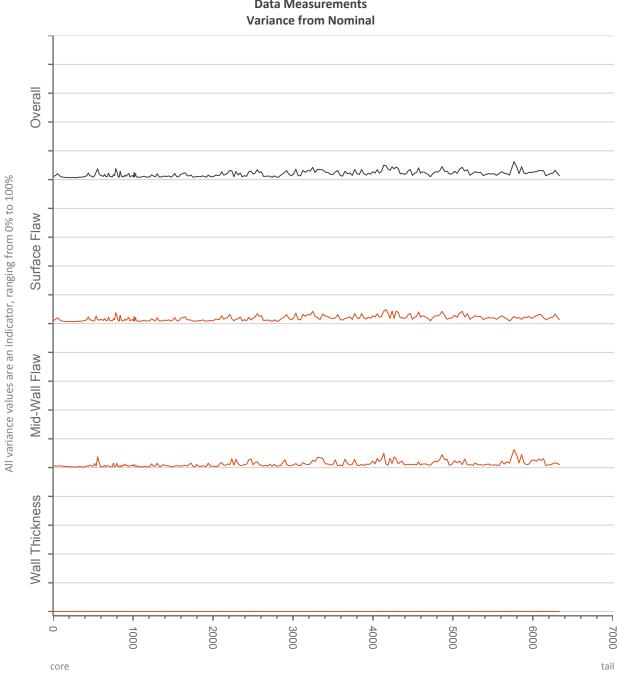
Measurments in the repaired notes are Pre repair (max) and Post repair (min). Please refer to inspection notes, graph, and pictures for further details.

For more detailed and interactive analysis, view this inspection on your secure CTI Portal. [ctiportal.ca]



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DATA CHARTS

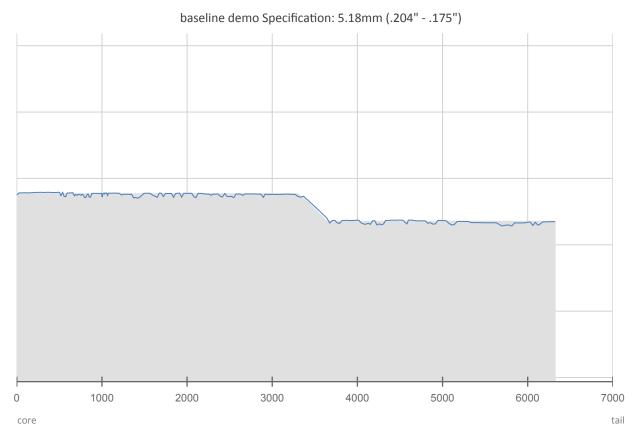


Data Measurements



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Wall Thickness Compared to Nominal





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INSPECTION RESULTS

1m - 2m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)
Comment	60.38mm (2.377")	59.97mm (2.361")	0.680%	5.29mm (0.208")	5.10mm (0.201")
	Start of i	nspection.			
62m - 63m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)
Comment	60.32mm (2.375")	60.24mm (2.372")	0.133%	5.23mm (0.206")	5.13mm (0.202")
	Bias weld.				
534m - 535m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)
Comment	60.27mm (2.373")	59.97mm (2.361")	0.498%	5.35mm (0.211")	5.25mm (0.207'')
	Bias weld	ł.			

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566m - 567m	OD (Max)	OD (Min)	Ovality	Pit Depth Gauge	UT (Max)	UT (Min)
Repaired	60.25mm (2.372")	60.04mm (2.364")	0.348%	0.012" or 0.305mm	5.32mm (0.209")	5.14mm (0.202")

External anomaly. This anomaly was repaired by Tenaris and measured before and after by CTI.



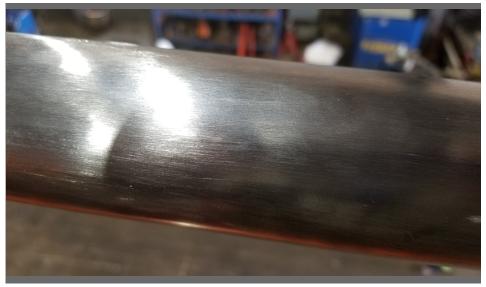


572m - 573m	OD (Max)	OD (Min)	Ovality	Pit Depth Gauge	UT (Max)	UT (Min)	
Repaired	60.77mm (2.393")	60.09mm (2.366")	1.128%	0.019" or 0.483mm	5.32mm (0.209")	4.79mm (0.189")	-
	External after by	'	This anoma	aly was rep	aired by Te	enaris and m	neasured before and



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584m - 585m	OD (Max)	OD (Min)	Ovality	Pit Depth Gauge	UT (Max)	UT (Min)
Repaired	60.04mm (2.364")	59.51mm (2.343")	0.879%	0.018" or 0.457mm	5.29mm (0.208")	4.98mm (0.196")

External anomaly. This anomaly was repaired by Tenaris and measured before and after by CTI.





1,007m - 1,008m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)
Comment	60.32mm (2.375")	59.88mm (2.357")	0.730%	5.24mm (0.206")	5.16mm (0.203")
	Bias weld	۱.			



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1,319m - 1,320m	OD (Max)	OD (Min)	Ovality	Pit Depth Gauge	UT (Max)	UT (Min)	
Repaired	59.96mm (2.361")	59.76mm (2.353")	0.332%	0.010" or 0.254mm	5.30mm (0.209")	4.95mm (0.195")	

External anomaly. This anomaly was repaired by Tenaris and measured before and after by CTI. Low UT reading on manufacturer repair of 4.95mm.







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1,468m - 1,471m	OD (Max)	OD (Min)	Ovality	Pit gauge depth	UT (Max)	UT (Min)
Repaired	59.92mm (2.359")	59.67mm (2.349")	0.415%	.012" or .305mm	5.29mm (0.208'')	5.14mm (0.202")
	3m sectio	on of exter	nal anoma	alies on the l	eft side of	the CT. This

3m section of external anomalies on the left side of the CT. This area was repaired by Tenaris and measured before and after by CTI.





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1,477m - 1,478m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)
Comment	60.24mm (2.372")	60.00mm (2.362")	0.398%	5.27mm (0.207")	5.16mm (0.203")

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1,718m - 1,719m	OD (Max)	OD (Min)	Ovality	Pit Depth Gauge	UT (Max)	UT (Min)
Repaired	60.05mm (2.364")	59.51mm (2.343")	0.896%	0.021" or 0.533mm	5.50mm (0.217")	5.03mm (0.198")

External anomaly. This anomaly was repaired by Tenaris and measured before and after by CTI.





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1,954m - 1,955m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)		
Comment	60.34mm (2.376")	60.01mm (2.363")	0.547%	5.33mm (0.210")	5.10 (0.20			

Bias weld. External anomalies continue intermittently on the side of the tubing.



2,431m - 2,432m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)
Comment	60.39mm (2.378")	60.09mm (2.366")	0.498%	5.31mm (0.209'')	5.19mm (0.204")

Bias weld. Anomalies continue toward tail.





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2,473m - 2,474m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)		
Repaired	60.40mm (2.378")	60.05mm (2.364")	0.580%	5.27mm (0.207")	5.18 (0.2			
	Raised m anomaly.		nal anomal	y. Raised n	netal	was re	paired	by CTI exposing a 0.006"
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2,906m - 2,907m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)
Comment	60.35mm (2.376")	60.06mm (2.365")	0.481%	5.25mm (0.207")	5.05mm (0.199")





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3,331m - 3,332m	OD (Max)	OD (Min)	Ovality	Pit Depth Gauge	UT (Max)	UT (Min)	
Repaired	60.26mm (2.372")	59.97mm (2.361")	0.481%	0.015" or	5.22mm (0.206")	4.90mm (0.193")	_
	External after by C	-	This anom	aly was rep	aired by Te	enaris an	d measured before and
							Welter
							<u>+1</u> 1
	and the second						
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3,347m - 3,348m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)		
Comment	60.47mm (2.381")	59.96mm (2.361")	0.846%	5.22mm (0.206")	5.07mm (0.200'')	-	
	Bias weld	l. Start of v	wall transit	ion from 5.	18mm to 4	.45mm.	
3,674m - 3,675m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)		
Comment	60.66mm (2.388")	60.00mm (2.362")	1.095%	4.58mm (0.180")	4.35mm (0.171")		
	Bias weld	l. End of w	all transiti	on to 4.45m	ım.		
4,053m - 4,054m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)		
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4,136m - 4,137m	OD (Max)	OD (Min)	Pit Depth Gauge	UT (Max)	UT (I	Min)	
Repaired	60.57mm (2.385")	60.09mm (2.366")	0.022" or 0.559mm	4.54mm (0.179")	4.03 (0.15		
	External a after by C		his anoma	ly was repa	aired I	oy Tenaris an	d measured before and
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4,213m - 4,214m	OD (Max)	OD (Min)	Ovality	Pit Depth Gauge	UT (Max)	UT (Min)
Repaired	60.34mm (2.376")	59.99mm (2.362")	0.580%	0.020" or 0.508mm	4.60mm (0.181")	4.16mm (0.164")

External anomoly. This anomaly was repaired by Tenaris and measured before and after by CTI.

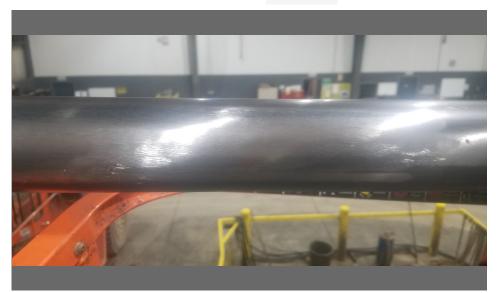


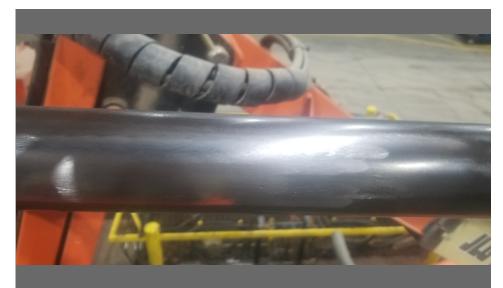


4,255m - 4,256m	OD (Max)	OD (Min)	Ovality	Pit Depth Gauge	UT (Max)	UT (Min)	
Repaired	60.65mm (2.388")	60.29mm (2.374")	0.597%	0.018" or 0.457mm	4.56mm (0.180")	4.13mm (0.163")	
	Two external anomalies in the area. These anomalies were repaired by Tenaris and measured before and after by CTI.						



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4,261m - 4,262m	OD (Max)	OD (Min)	Ovality	Pit Depth Gauge	UT (Max)	UT (Min)	
Repaired	60.70mm (2.390'')	60.04mm (2.364")	1.095%	0.020" or 0.508mm	4.58mm (0.180")	4.22mm (0.166")	
	Four external anomalies in the area. These anomalies were repaired by Tenaris and measured before and after by CTI.						



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4,483m - 4,484m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)
Comment	60.37mm (2.377")	59.98mm (2.361")	0.647%	4.48mm (0.176")	4.31mm (0.170")

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4,583m - 4,584m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)	
Caution	60.87mm (2.396")	59.86mm (2.357")	1.675%	4.57mm (0.180'')	4.48 (0.17		

External anomaly. Indentations along seam of tubing.





4,676m - 4,677m	OD (Max)	OD (Min)	Ovality	Pit Depth Gauge	UT (Max)	UT (Min)
Caution	60.63mm (2.387")	60.33mm (2.375")	0.498%	0.011" or 0.279mm	4.62mm (0.182")	4.34mm (0.171")
	External	anomaly.				



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4,875m - 4,876m	OD (Max)	OD (Min)	Ovality	Pit Depth Gauge	UT (Max)	UT (Min)	
Repaired	60.42mm (2.379")	59.88mm (2.357")	0.896%	0.018" or 0.457mm	4.50mm (0.177")	4.05mm (0.159")	
	External a	anomaly. P	revious re	pair in area	from man	ufacturer. Tl	hi

External anomaly. Previous repair in area from manufacturer. This anomaly was repaired by Tenaris and measured before and after by CTI.





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4,928m - 4,929m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)
Comment	60.51mm (2.382")	60.18mm (2.369")	0.547%	4.76mm (0.187")	4.52mm (0.178'')



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5,124m - 5,125m	OD (Max)	OD (Min)	Ovality	Pit Depth Gauge	UT (Max)	UT (Min)
Repaired	60.66mm (2.388")	60.33mm (2.375")	0.547%	0.012" or 0.305mm	4.52mm (0.178")	4.29mm (0.169")

Three external anomalies in area. These anomalies were repaired by Tenaris and measured before and after by CTI.







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5,147m - 5,148m	OD (Max)	OD (Min)	Ovality	Pit gauge depth.	UT (Max)	UT (Min)
Repaired	60.51mm (2.382")	60.29mm (2.374")	0.365%	.012" or .305mm	4.59mm (0.181")	4.39mm (0.173")

External anomalies.



5,345m - 5,346m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)
Comment	60.48mm (2.381")	60.17mm (2.369")	0.514%	4.58mm (0.180")	4.40mm (0.173")



5,751m - 5,752m

Caution

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OD (Max)	OD (Min)	Ovality	UT (Max)	UT (I	Vin)		
60.06mm (2.365")	59.42mm (2.339")	1.061%	4.46mm (0.176")	3.90ı (0.15			

Previous repair from manufacturer indicated on CTI's tool. Low UT measurement of 12.4% metal loss from nominal.



5,792m - 5,793m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (Min)
Caution	60.46mm (2.380")	60.04mm (2.364")	0.697%	4.47mm (0.176")	4.04mm (0.159")

Previous repair by manufacturer indicated on CTI's tool. Low UT of 9.2% metal loss from nominal wall. Similar external repair from manufacturer at 5874m.



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5,850m - 5,851m	OD (Max)	OD (Min)	Ovality	UT (Max)	UT (M	in)		
Comment	60.48mm (2.381")	60.08mm (2.365")	0.663%	4.20mm (0.165")	4.47m (0.176			
	Bias weld	ł.						
6,094m - 6,095m	OD (Max)	OD (Min)	Ovality	Pit Depth Gauge	UT (M	ax) l	UT (Min)	
Repaired	60.21mm (2.370")	59.93mm (2.359")	0.464%	0.014" or 0.356mm	4.57m (0.180		4.22mm (0.166'')	
	External	anomaly. T	his anoma	aly was repa	aired by	y Tena	ris and m	easured before an

after by CTI.





INSPECTION SERVICES

THIS INSPECTION WAS PERFORMED BY

Garrett Sears

AJ Sagan

Disclaimer: This inspection observes the coil tubing at the time our equipment is actively scanning. Our equipiment is meant to scan for corrosion, mechanical and manufacturing types of failures and cannot identify or dismiss non-tradition material failures. Damages can occur after our inspection is complete during additional material handling and transportation.

[ctiportal.ca]