



ULTRASONIC INSPECTION REPORT

DATE:	26-Sep-2016	REPORT #:	UT-CO26SEPT2016A
CLIENT:	TOURMALINE OIL CORP.	AVALANCHE JOB #:	16-105
LOCATION:	05-14-082-08W6M MULLIGAN BATTERY	PROJECT:	N/A
ITEMS EXAMINED:	SEPARATOR A0642464 4-8 O'CLOCK POSITION.		
PROCEDURE:	UT-01	CLIENT PO # / JOB #:	N/A
ACCEPTANCE CRITERIA	ASME VIII	SPECIFICATION:	AS PER CLIENT SPEC.

EQUIPMENT

SURFACE CONDITION:		<input type="checkbox"/> Clean Base Metal <input type="checkbox"/> As Ground <input type="checkbox"/> Wire Wheel Buffed <input type="checkbox"/> As Welded <input checked="" type="checkbox"/> Painted <input type="checkbox"/> Sand Blast							
UT INSPECTION MODE:		<input checked="" type="checkbox"/> Zero Degree <input type="checkbox"/> Shearwave		Couplant:		UT-X	Material :	C/S	
EQUIPMENT TYPE:		38 DL +	Serial #	120497108	Cal Date:	Jul-06-2016	Cable Length/Type:		6' / Micro to Lemo
CALIBRATION BLOCKS:		1.000" C/S Step							
REFERENCE REFLECTOR:		Type:		Size:		Depth:		Signal Resp (FSH):	
PROBE TYPE	Angle (SN)	Wave	Freq.	Size	Manuf.	Serial #	Range	Ref. Level	Scan Level (Db)
DUAL	0	LONG	5MHz	0.250"	STRESSTEL	0268TM	1.000"	64	70
SINGLE									
SINGLE									
SINGLE									

TEST RESULTS

SCOPE:


AN ULTRASONIC EXAMINATION WAS PERFORMED ON SEPARATOR A0642464 AT THE 4-8 O'CLOCK POSITION FROM THE WEAR PLATE THAT WAS MARKED OUT ON SHELL TO THE OUTLET END, HEAD TO SHELL CIRC WELD. BOOT SHELL AND HEAD WERE ALSO SCANNED. SEE BELOW FOR LOW READINGS. AND LOCATIONS SHELL NOMINAL = 0.500". CA = 0.125 BOOT HEAD NOMINAL = 0.375" ASSUMED FROM UT READINGS.

LOCATION A LOW	0.422"	BOOT HEAD SOUTHWEST SIDE	0.301"
LOCATION B LOW	0.410"	BOOT HEAD EAST SIDE	0.307"
LOCATION C LOW	0.399"		
LOCATION D LOW	0.392"		
LOCATION E LOW	0.415"		

3 month interval for the UT grid on the bottom of the separator shell. JW Dec 13, 2016

RESULTS:

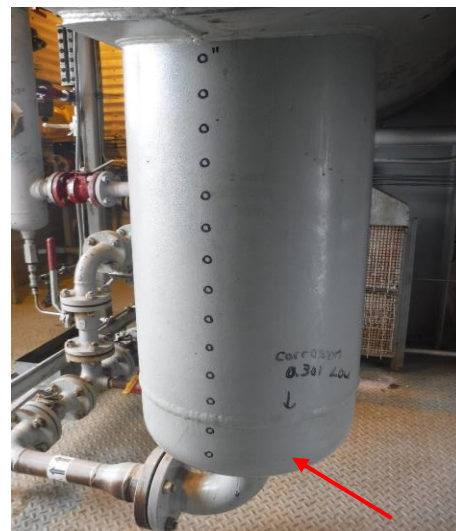
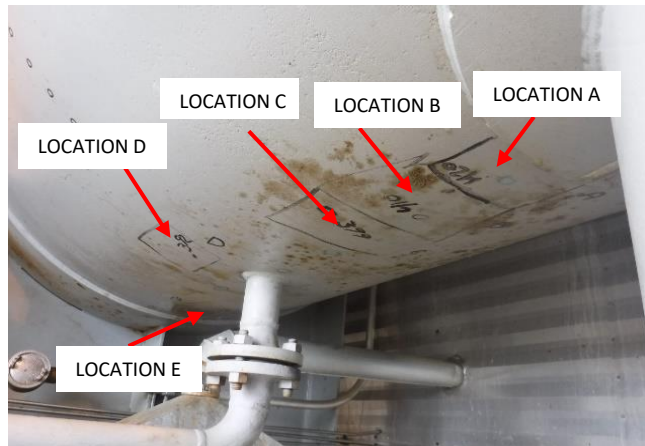
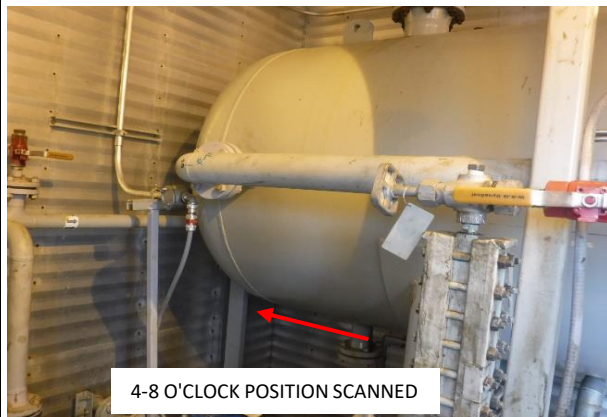
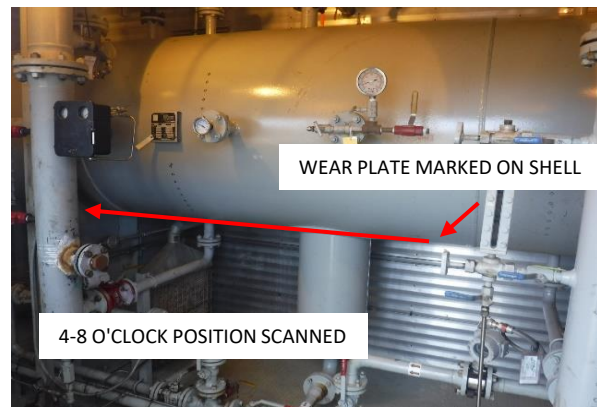
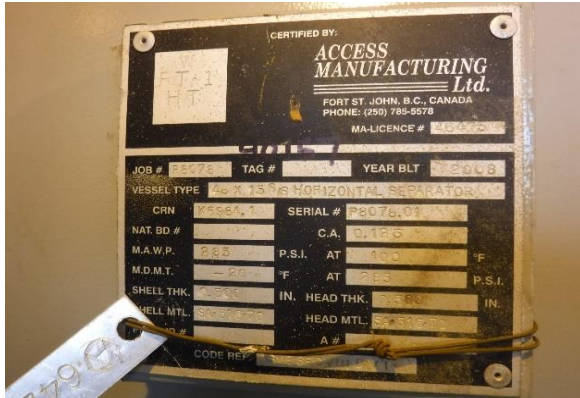
CORROSION NOTED THROUGHOUT THE 5-7 O'CLOCK POSITION. DEPTHS RANGING FROM 0.020" - 0.108" NOTED. CORROSION NOTED ON BOOT HEAD. LOWS OF 0.080" AND MORE BELOW NOMINAL WHERE MARKED OUT ON VESSEL AND RECORDED, AS PER TOURMALINE INSPECTOR KEVIN GAWLEY.

TECHNICIAN:	Chad Oakes	ASSISTANT:	Mark Carter
SIGNATURE:		CLIENT:	
CGSB/SNT CERTS:	16755 UT I/MT II	SIGNATURE:	



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CORROSION ON EAST SIDE BOOT HEAD.

CORROSION ON SOUTHWEST BOOT HEAD