

South Bend Project Report

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SUBJECT:		Southwest Main Wheel Tire Failure			
REQUESTED BY:		R. Giacomello	S/N	See below	PART NO. 2606671 and 2606672
DEPARTMENT		EXTENSION	PART NAME		Main wheel and brake
CHARGE NO.	CUSTOMER		Southwest Airlines	MODEL	737-300
ATLAS NO.	PROJECT ENG.		Andrew Chung		
BACKGROUND:					
Four main wheels and brakes were returned to Honeywell South Bend for inspection after a landing incident that included three tire failures and a tire fire. Anti-skid problem is suspected to have caused the incident.					
REFERENCES					
REQUEST:				REPORT TO: Southwest Airlines	
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WRITTEN BY:	R. Kincaid	REVIEWED BY:	J. Hollowell	DATE:	June 3, 2009
TECHNICAL CONTRIBUTIONS:					
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Conclusions:

- All main wheels appeared to be assembled correctly based on the equipment returned.
- Three of the four tires were blown, positions #1, #3, and #4.
- One wheel had roll on rim damage to the IB half, S/N B6787 .
- One wheel was ground through into the tubewell, S/N B4486/BH1650.
- Three sets of bearing were returned and in good condition.
- All bearing cups were in good condition.
- All brake assemblies were in good condition with the exception of one.
- All brakes had wear pin remaining, see chart below.
- All brakes were pressurized to 3000 psig with no leakage seen.
- Brake assembly C-0113 had three rotors damaged due to the skid that ground through the tubewell ID.

Aircraft 371	Brake S/N	MFD	Main Wheel S/N	MFD
#1	C0281	7/98	B7444	3/91
#2	B2819	7/91	B5506/BH1624	12/87
#3	B3313	12/91	B6787	2/90
#4	C0113	8/95	B4486/BH1650	Missing

Brake S/N	Wear Pin #1	Wear Pin #2	Rotors Tight PSIG	Rotors Loose PSIG
C-0113	0.013"	0.065"	170	145
B-2819	0.619"	0.607"	174	146
C-0281	0.288"	0.275"	175	143
B-3313	0.510"	0.562"	165	151



















