



SUBJ: 6110 Propeller Assembly

SAIB: NE-09-48

Date: August 14, 2009

This is information only. Recommendations aren't mandatory.

Introduction

This Special Airworthiness Information Bulletin (SAIB) alerts you, (owners, operators, and certificated repair facilities) of any propeller, or any propeller component parts, repaired, inspected, or overhauled by Western Aircraft Propeller Service, Inc. (Air Agency Certificate #FQ6R544N) of potential nonconformities that might exist. We have received field service difficulty reports concerning two Hartzell Propeller, Inc. model PHC-C3YF-2UF (S/Ns EB1176 and EB1178) propellers installed on a Hawker Beechcraft Baron Model E55 airplane. We evaluated the propellers based on an owner complaint that his propellers were improperly overhauled. At this time, the airworthiness concern is not an unsafe condition that would warrant airworthiness directive (AD) action under Title 14 of the Code of Federal Regulations (14 CFR) part 39.

Background

The above suspect propellers were removed and sent to another propeller repair station for evaluation. An FAA Flight Standards Principal Maintenance Inspector (PMI) witnessed the subsequent teardown of the two propeller assemblies. During the teardown inspection several nonconformities were discovered, and the propellers were sent to Hartzell Propeller, Inc. for further examination. The following are some of the nonconformities compiled by the FAA PMI from that examination:

1. Helicoil "Slimserts" required to be installed at overhaul were not installed in the hub mounting studs.
2. The blade pitch change knobs were shot peened without the required quality control pre-authorization from the propeller manufacturer and appeared to have used the wrong shot peening process.
3. Protective finish paint was not Polane Gray as defined in manufacturer's instructions for continued airworthiness (ICA), and was easily removed using lacquer thinner.
4. Pitch change knob bushings were installed in the wrong position, and were installed with an un-approved adhesive.
5. One hub had damaged threads well beyond tolerances established by the ICA.
6. One cylinder had damaged threads well beyond tolerances established by the ICA.
7. EC776 "sealer" was applied in the hub bearing retention radius which has not been required since the early 1990s.

Because of the observed condition of the propeller assemblies discovered during this inspection, the Portland Flight Standards District Office (FSDO) performed a focused repair station facility inspection. The following are some of the conditions noted during the inspection:

1. The facility performed inspections specified by Airworthiness Directives (ADs), and returned propellers to service, without meeting the applicable nondestructive inspection (NDI) qualifications required by the AD.
2. NDI equipment calibrations were not kept current in accordance with the applicable propeller manufacturer's ICAs.
3. Employee certifications for NDI Level II requirements were not kept current.
4. Calibration of tools used to assemble and overhaul propeller components were out of date.
5. The facility was not qualified to perform shot peening and used an unapproved shot peening process on propeller blades.
6. The facility performed NDI, and applied protective chemical conversion coatings on propeller component parts without meeting the requirements or qualifications specified in the propeller manufacturer's ICA. Some of these parts were installed during overhaul, and some were stocked for resale with FAA 8130-3 forms attached.
7. Used propeller parts in stock at the facility were returned to service with FAA 8130-3 forms as "overhauled," "reconditioned," or "inspected" without reference or traceability to any FAA accepted standards.
8. The facility did not perform all the requirements for a propeller overhaul as defined by the applicable propeller manufacturer's ICAs, but returned the propeller assembly to service as "overhauled."

Recommendations

To prevent potential propeller failures or associated propeller service difficulties, we recommend that if you have any propeller model or propeller component part that has had work performed by this propeller repair station reinspected in accordance with the applicable propeller manufacturer's published ICA documentation. If any nonconformities are discovered, please contact the FAA below and submit a report summary of the nonconformities. Please include propeller manufacturer's name, propeller model, part number (as applicable), serial number, and applicable aircraft installation information.

Applicable model list: Any propeller manufacturer's model installed on any applicable aircraft model that was repaired, overhauled, or inspected before July 1, 2009, by Western Aircraft Propeller Service, located in Troutdale, Oregon. (See attached propeller listing compiled from records obtained from Western Aircraft Propeller Service and **NOTES** below for further information).

NOTE 1: THIS LISTING MAY NOT INCLUDE ALL APPLICABLE MODELS.

For the period of January 1, 2007 through June 31, 2009, many work order numbers in the attached listing sequence are missing, and a record of their status was not made available to the FAA. For the years prior to 2007, repair station records were not available to determine other propellers potentially affected by this SAIB.

NOTE 2: Propellers and propeller components returned to service by Western Aircraft Propeller Service after July 1, 2009, are not subject to this SAIB.

For Further Information Contact

Mr. Jay Turnberg, Propeller Specialist, Standards Staff, FAA, Engine and Propeller Directorate; 12 New England Executive Park, Burlington, MA 01803; e-mail: jay.turnberg@faa.gov; telephone (781) 238-7116; fax (781) 238-7199.

For Hartzell Propellers

Mr. Tim Smyth, Senior Propulsion Engineer, Propulsion Branch, FAA, Chicago Aircraft Certification Office; 2300 East Devon Avenue, DesPlaines, IL 60018; e-mail: timothy.smyth@faa.gov; telephone (847) 294-7132; fax (847) 294-7834.

For McCauley Propellers

Mr. Jeff Janusz, Senior Propulsion Engineer, Propulsion Branch, FAA, Wichita Aircraft Certification Office; 1801 Airport Road, Room 100, Wichita, Kansas 67209; e-mail: jeff.janusz@faa.gov; telephone (316) 946-4148; fax (316) 946-4107.

For Sensenich Propellers

Mr. James Delisio, Aerospace Engineer, Propulsion Branch, New York Aircraft Certification Office; FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; e-mail: james.deliso@faa.gov; telephone (516) 228-7321; fax (516) 568-2716.

For Hamilton Sundstrand, Avia, Dowty, Hoffmann, or MT Propellers:

Mr. Terry Fahr, Aerospace Engineer, Propulsion Branch, FAA, Boston Aircraft Certification Office; 12 New England Executive Park, Burlington, MA 01803; e-mail: terry.fahr@faa.gov; telephone (781) 238-7155; fax (781) 238-7170.

For Related Service Information Contact

Avia Propeller Ltd., Beranových 666, 199 00, Prague – Letňany, Czech Republic; phone: +420/0/2/9633 6530 or 31; fax: +420/0/2/9633 6519 or 33.

Dowty Propellers, Anson Business Park, Cheltenham Road East, Gloucester GL 2 9QN, UK; phone: 44 (0) 1452 716000; fax: 44 (0) 1452 716001.

Hamilton Sundstrand, One Hamilton Rd, Windsor Locks, CT 06095; phone: (860) 654-6822; fax: (860) 654-5107.

Hartzell Propeller, Inc., Hartzell Propeller Product Support, Attn: Product Support; One Propeller Place, Piqua, OH 45356-2634; phone: (937) 778-4379; fax: (937) 778-4391 (Intl. 001.937.778.4391).

Hoffmann GmbH & Co.KG, Kuepferlingstr. 9, D-83022, Rosenheim, Germany; phone: +49-8031-1878-0; fax: +49-8031-1878-78.

McCauley Propeller Systems, P.O. Box 7704, Wichita, KS 67277-7704; phone: (800) 621-7767; fax: (316) 831-3858.

MT-Propeller Entwicklung GmbH, Flugplatzstr. 1, D-94348 Atting, Germany; phone: +49-(0)9429-94090; fax: +49-(0)9429-8432.

Sensenich Propeller Manufacturing Company, Inc., 14 Citation Lane, Lititz, PA 17543; phone: (717) 569-0435; fax: (717) 560-3725.

PARTIAL LIST OF SUSPECT AIRCRAFT PROPELLERS

Manufacture	Serial Number	Model	Work Order Number
Hamilton Standard	7283	5404AL	21105
Hamilton Standard	35702	2B20	20241
Hamilton Standard	41926	2B20	20425
Hamilton Standard	92471	2D30	20034
Hamilton Standard	N4180	5406	21104
Hartzell	671	HC-E2YR-2B5F	20190
Hartzell	1871	HC-C2YL-285	19942
Hartzell	2709	HC-E2YL-2BSF	20412
Hartzell	6892	HC-12V20-7D	20321
Hartzell	9006	HC-82VK-10	20386
Hartzell	41288	HC-133820-4A	21099
Hartzell	8441623	HC-345N-3	21109
Hartzell	1010L	HC-92ZK-8D1	20214
Hartzell	1113L	HC-922K-813	20195
Hartzell	1153F	HC-72ZK-2B	19971
Hartzell	1164F	HC-92ZK-2B	19973
Hartzell	12941E	HC-C2YK-1BF	20223
Hartzell	1296L	HC-92EK-8D	20049
Hartzell	13466B	HC-C2YK-4CF	20340
Hartzell	180E	HC-C2YK-1D	20212
Hartzell	1931E	HC-C2YK-1A	20344
Hartzell	3A1094	HC-F3YR-2UF	20069
Hartzell	8289V	HC-82VL-28	21136
Hartzell	841K	HC-82V6-2C	21017
Hartzell	A45476B	HC-C2YF-1RF	20380
Hartzell	A58025	HC-82415-1	21057
Hartzell	AF232	HC-B3Z20-1	20414
Hartzell	AK1282	HC-A2V20-4A1	20860
Hartzell	AK130	HC-A2N20-4A1	20247
Hartzell	AK1453	HC-AV20-4A1	20382
Hartzell	AK1580	HC-A2V20-4A1	20224
Hartzell	AK918K	HC-A2V20-4A1	20505
Hartzell	AM2198E	HC-C2YF-1BF	20178
Hartzell	AM910	HC-C2yF-1BF	20441
Hartzell	AN912	BAC-C2YF-2CKFU	20438
Hartzell	AU10674B	HC-C2YK-2CLEVF	20378
Hartzell	AU11450B	HC-C2YK-4CF	20527
Hartzell	AU11911B	HC-C2YR-2CLEUF	20837
Hartzell	AU11911B	HC-C2YR-2LEVF	20019
Hartzell	AU11913B	HC-C2YR-2CEVF	20235
Hartzell	AU12096B	HC-C2Y-4CF	20100
Hartzell	AU128968	HC-C2YR-2CLEUF	20042
Hartzell	AU12989B	HC-C2YR-2CEUF	20043
Hartzell	AU13249B	HC-C2YK-4CF	20104
Hartzell	AU13666B	HC-C2YR-2CEVF	20494
Hartzell	AU13667B	HC-C2YR-2CEULF	20493
Hartzell	AU13777B	HC-C2YR-2CEVF	20568
Hartzell	AU13828B	HC-C2YR-2CEVFL	20569
Hartzell	AU2218	HC-C2YK-2	20204
Hartzell	AU5415E	BHC-C2YF-2CK_P	20163

Hartzell	AU7491E	HC-C2YK-2UCF	20538
Hartzell	AU7493E	HC-C2YK-2CUF	20537
Hartzell	AU80900	HC-C2YR-2CEUF	20011
Hartzell	AU8090E		20151
Hartzell	AU9869B	HC-24K-2CGF	20869
Hartzell	BEA1349	HC-B4TN-5HL	20210
Hartzell	BG4665	HC-C3YL-2RBSF	20601
Hartzell	BL-254	EHC-A3VF-2B	20398
Hartzell	BP4855E	HC-E3YR-2RBS	20082
Hartzell	BP7280	HC-E2YR-2RB5F	20191
Hartzell	BP905E	HC-EC2YR-7RBS	20083
Hartzell	BR339	PHC-A3VE2B	20120
Hartzell	BR428	PHC-A3VF-2B	20379
Hartzell	BR431	PHC-A3VF-2B	20380
Hartzell	BR481	HC-A3VF-2B	20380
Hartzell	BR497	PHC-A3VE2B	20119
Hartzell	BR680	PHC-A3YF-2	21129
Hartzell	BR737	EHC-A3VF-2B	20399
Hartzell	BS906	HC-E2YK-2RBS	20237
Hartzell	BUA25145	HC-B3TN-3	20840
Hartzell	BUA25281	HC-B2TN-3	20158
Hartzell	BUA26290	HC-B3TN-3C	20194
Hartzell	BUA26299	HC-B3TN-3C	20193
Hartzell	BUA266602	HC-B3TN-3	20157
Hartzell	BUA27884	HC-B3TN-5M	20590
Hartzell	BVA6148	HC-B3TU-5FL	20066
Hartzell	BVA6206	HC-B3TN-5FL	20112
Hartzell	BVA6392	HC-B3TN-5FL	20067
Hartzell	BVA6485	HC-B3TN-5FL	20526
Hartzell	BVA6486	HC-B3TN-5FL	20525
Hartzell	BVA6845	HC-B3TN-5M	20501
Hartzell	BVA7401	HC-B3TN-5FL	20141
Hartzell	BVA7817	HC-B3TN-5FL	20474
Hartzell	BVA7817	HC-B3TN-5FL	20541
Hartzell	BVA7849	HC-B3TN-5FL	20540
Hartzell	BVA7850	HC-B3TN-5FL	20287
Hartzell	BVA7957	HC-B3TN-5FL	19948
Hartzell	BVA7983	HC-B3TN-5FL	20113
Hartzell	C41456E	HC-C2YK-1BH	20486
Hartzell	C51932E	HC-C2YR-2	20880
Hartzell	CC194	EHC-A3VF-2B	20634
Hartzell	CC195	EMC-A3V-2B	20633
Hartzell	CDA3038	HC-B4TN-5HL	20447
Hartzell	CDA3040	HC-B2TN-5HL	20448
Hartzell	CDA3682	HC-B4TN-5ML	20839
Hartzell	CH11762	HC-C2YK-1BF	20271
Hartzell	CH1272	HC-C2YK-1BF	20442
Hartzell	CH12941E	HC-C2YK-1BF	20475
Hartzell	CH1548C	HC-C2YK-1B	20511
Hartzell	CH1548E	HC-C2YK-1B	20026
Hartzell	CH15649E	HC-C2YK-1BF	19977
Hartzell	CH15649E	HC-C2YK-1BF	20470
Hartzell	CH15689E	HC-C2YK-1BF	20278
Hartzell	CH15955E	HC-C2YK-1RF	20369

Hartzell	CH16337E	HC-C2YK-1BF	20126
Hartzell	CH17624E	HC-C2YR-1BF	20356
Hartzell	CH17782E	HC-C2YK-1BF	20268
Hartzell	CH17782E	HC-C2YK-1BF	20567
Hartzell	CH18432E	F7666A-2	20140
Hartzell	CH19020E	HC-C2YK-1BF	20189
Hartzell	CH20175E	HC-C2YK-1BF	20107
Hartzell	CH20175E	HC-C2YK-1BF	20514
Hartzell	CH20666	HC-C24R-1BF	21008
Hartzell	CH207815	HC-C2YK-1B	20085
Hartzell	CH21197	HC-C2YK-1BF	20044
Hartzell	CH21419E	HC-C2YK-1	19944
Hartzell	CH21927E	HC-C2YK-1B	20325
Hartzell	CH21927E	HC-C2YK-1BF	20445
Hartzell	CH22013	HC-C2YK-1BF	20053
Hartzell	CH2329	HC-C2yK-BF	20427
Hartzell	CH23694E	HC-C2YK-1BF	20397
Hartzell	CH23931	HC-C2YK-1BF	20031
Hartzell	CH24075E	HC-C2YK-1BF	20345
Hartzell	CH244492E	HC-C2YK-1BF	20294
Hartzell	CH24853E	HC-C2YK-1RF	20040
Hartzell	CH26637	HC-C2YK-1BF	20509
Hartzell	CH26844E	HC-C2yK-BF	20305
Hartzell	CH2735E	HC-C3YK-1BF	20038
Hartzell	CH2785E	HC-C2YK-1BF	20488
Hartzell	CH27938	HC-C2YK-1BF	21103
Hartzell	CH28516E	HC-C2YK-1BF	20003
Hartzell	CH2880E	HC-C3YK-2EULF	20556
Hartzell	CH2964?	HC-C2YR-1BF	21131
Hartzell	CH2Y375E	HC-C2YK-1BF	20560
Hartzell	CH3001E	HC-C2YK-1BF	20565
Hartzell	CH30943	HC-C2YK-1BF	19991
Hartzell	CH3094E	HC-C2YK-1BT	20451
Hartzell	CH31885A	HC-C2YR-1BF	20871
Hartzell	CH3249E	HC-C2YK-1BF	19962
Hartzell	CH3249E	HC-C2YR-1BF	20373
Hartzell	CH33076B	HC-C3YK-1BF	20017
Hartzell	CH34757B	HC-C2YK-184	20881
Hartzell	CH36380B	HC-C2YK-1B	20402
Hartzell	CH36600B	HC-C2YK-1BF	20102
Hartzell	CH36657B	HC-C2YR-1BF	20101
Hartzell	CH36671B	HC-C2YK-1BF	20063
Hartzell	CH36693B	HC-C2YK-1BF	20099
Hartzell	CH36697B	HC-C2YK-1RF	20543
Hartzell	CH367030	HC-C2YR-1BF	20174
Hartzell	CH36976B	HC-C2YK-1BF	20064
Hartzell	CH37049B	HC-C2YK-1BF	20181
Hartzell	CH37912B	HC-C2YK-1BF	20182
Hartzell	CH38189B	HC-C2YR-1BF	20606
Hartzell	CH38189B	HC-C2YR-1BF	20606
Hartzell	CH39615B	HC-C2YK-1BF	20311
Hartzell	CH4071E	HC-C2YK-1B	20320
Hartzell	CH41935		21078
Hartzell	CH42319B	HC-C2YK-1BF	20293

Hartzell	CH42693B	HC-C2YK-1BF	20250
Hartzell	CH42719B	HC-C2YK-1RF	20238
Hartzell	CH43043B	HC-C2YK-1B	20261
Hartzell	CH43100B	HC-C2YK-1B	20290
Hartzell	CH43126R	HC-C2YR-1BF	20291
Hartzell	CH43136B	HC-C2YK-1BF	20392
Hartzell	CH43217B	HC-C2YK-1BF	20391
Hartzell	CH43229B	HC-2YR-18	20317
Hartzell	CH43300B	HC-C2YR-1BF	20357
Hartzell	CH43303B	HC-C2YK-1BF	20458
Hartzell	CH43658B	HC-C2YK-1QF	20461
Hartzell	CH43709B	HC-C2yR-1RF	20621
Hartzell	CH4376E	HC-C2YK-1BF	20004
Hartzell	CH5684E	HC-C2YR-1BF	20074
Hartzell	CH575E	HC-C2YK-1	20383
Hartzell	CH5831	HC-C2YK-1BF	20282
Hartzell	CH5835E	HC-C2YK-1BF	20471
Hartzell	CH6932	HC-C2YK-1BF	20012
Hartzell	CH79502	HC-C2YK-1B	21122
Hartzell	CH809E	HC-C2YR-1B	20463
Hartzell	CH8396E	HC-C2YK-1BF	20133
Hartzell	CH8396E	HC-C2YR-1BF	20132
Hartzell	CH8396E	HC-C2YR-1BF	20362
Hartzell	CH8396E		19952
Hartzell	CH8449E	HC-C2YK-1BF	20160
Hartzell	CH8888E	HC-C2YK-1BF	20072
Hartzell	CH9183E	HC-C24K1BF	20401
Hartzell	CH9183E	HC-C2YK-1BF	20559
Hartzell	CK157		21013
Hartzell	CK2880E	HC-C3YR-2ELUF	20523
Hartzell	CK4711A	HC-C3YR-2UF	20849
Hartzell	CK4712A	HC-C3YR-2UF	20850
Hartzell	CK52218	HC-C348-2 ??	20883
Hartzell	CN263E	HC-C2YR-4CF	20508
Hartzell	D2063	HC-83V20-261	20185
Hartzell	D206T	HC-83V20-261	20184
Hartzell	D261	HC-83Y20-2R	20143
Hartzell	D3182N	HC-83X20-2	20589
Hartzell	DA27	HC-F3YR-2UF	20068
Hartzell	DK216	HC-E2YR-1R	20108
Hartzell	DN30630	HC-C2YR-2CLEVF	20010
Hartzell	DN3063E	HC-C2YR-2CLEUF	20600
Hartzell	DN4344A	HC-C2YK-4	20450
Hartzell	DP14	HC-E2YL-2BSF	20411
Hartzell	DV70E	HC-H3YN-2VF	20546
Hartzell	DV72E	HC-H3YN-2VF	20547
Hartzell	DY2459A	HC-C3YR-1R	20200
Hartzell	DY2486A	HC-C3YR-1RF	20413
Hartzell	DY2591A	HC-C34F-1RF	20308
Hartzell	DY2804A	HC-C3YR-1RF	20286
Hartzell	DY2839A	HC-C3YR-1RF	20179
Hartzell	DY3870A	HC-C3YB-1BF	20096
Hartzell	DY7682B	HC-C3YR-1RF	20368
Hartzell	EAA1350	HC-B4TN-5HL	20211

Hartzell	EC11558	HC-C3YF-1RF	20466
Hartzell	EC1509A	HC-C34F-1RF	20279
Hartzell	EM288	HC-1334820-4B	21101
Hartzell	EM67	HC-B3R30-4	20177
Hartzell	EN498E	HC-M2YR-1RF	20338
Hartzell	EVA2150	HC-B5MP-3A	20219
Hartzell	EVA2275	HC-B5MP-3A	20217
Hartzell	EVA2276	HC-B5MP-3A8	20216
Hartzell	EXA1034	HC-B3TF-7	20582
Hartzell	F8615E	HC-M2YR-2CLEUF	20594
Hartzell	F861E	HC-M2YR-2CEUF	20593
Hartzell	FB1081A	HC-M2YR-2CLEUF	20070
Hartzell	FB1551B	HC-M2YR-CEUF	20405
Hartzell	FB1572B	HC-M2YR-2CLEUF	20404
Hartzell	FB1611B	HC-M2YR-2CLEUF	20562
Hartzell	FB666E	HC-M2YRKLEVF	20489
Hartzell	FE197E	HC-M2YK-1BF	20337
Hartzell	FM526	HC-E3YR-1RF	20367
Hartzell	FP716A	PNC-J3YF-1RF	21070
Hartzell	FWA4036	HC-B4MP-3C	20550
Hartzell	FWA4040	HC-B4MP-3C	20549
Hartzell	GC120B	HC-3CYN-5A	20055
Hartzell	H2168	HC-A2VK-2	20121
Hartzell	H2169	HC-A2VK-2	20122
Hartzell	HH382	HC-EYN-3	20428
Hartzell	HH857	HC-E4N-3Q	19966
Hartzell	J1049	HC-A2YK-1	20996
Hartzell	J34547	HC-A2MYL-2	19989
Hartzell	J520	HC-A2VK-1	20388
Hartzell	J693	HC-A2VK-1	20385
Hartzell	K2880E	HC-C3YR-ZELUF	20862
Hartzell	KX85	HC-E4A-3D	20574
Hartzell	ON3063E	HC-C2YR-2CEUF	20454
Hartzell	RK98	AC-A2V20-4A1	20172
Hartzell	T2623N	HC-82NF-1DR	20024
Hartzell	UC069	JHA7660	20443
Hartzell	Y2417	HC-A2VF-2	20437
Hartzell	Y2445	HC-A2VF-2	20436
Hartzell	Y2681	HC-A2VF-2	20371
Hartzell	Y389	HC-A2VF-2	20370
Jensen	A44434	740M6-0-60	20299
McCauley	474	4HFR34C762	20592
McCauley	863	B3D36C431-C	20277
McCauley	1614	4HER34C766-D	19954
McCauley	1614	4HFR34C766-D	20885
McCauley	1799	4HFR34C762	20591
McCauley	1915	4HER34C766-D	19955
McCauley	3770	DCM6948	20490
McCauley	6940	CM7148	20604
McCauley	8398	CF704448	20124
McCauley	10217	D3A368	20877
McCauley	10248	41D5926	20262
McCauley	10418	41D5926	20259
McCauley	10929	41D5926	20503

McCauley	10986	4105936	20400
McCauley	11036	DA34C401-C	20407
McCauley	11720	2A34C203-C	20246
McCauley	12949	4115926	21047
McCauley	19067	41D5926	21071
McCauley	20633	B3D36C432-C	20207
McCauley	20838	B3D36C442	20206
McCauley	22021	3AF32C523	20371
McCauley	22791	CM7343	20198
McCauley	25563	CM7150	20145
McCauley	25755	CM7154/1890	20535
McCauley	27032	3AF32C522	20372
McCauley	27169	1B90/CM7143	20243
McCauley	27169	CM7143	20231
McCauley	30144	B2D54C213-B	20116
McCauley	30472	CM7443	20071
McCauley	37899	MTM6948	20045
McCauley	42827	CM7150	20579
McCauley	48808	MCM695046	20105
McCauley	50092	1B__	20159
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McCauley	62569	2A36C29-REG	20090
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McCauley	77771	EM7653	20418
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McCauley	732648	DTM 7557	20273
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McCauley	901952	4HER34C762-E	20148
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McCauley	910036	4HFR34C762-E	20481
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Sensenich	35702	M76AM-2	20260
Sensenich	36671	72FM-8-S9-1-85	20329
Sensenich	80018	M76AM3	20998
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Sensenich	11266K	76EM8-55-60	20095
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Sensenich	27724K	76EM8S5-0-58	20499
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Sensenich	A44454	74DM6-0-5C	20416
Sensenich	A46417	74DM6S5-0-54	20134
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Sensenich	K6545	72CK86-0-54	20876
Sensenich	K6591	69CKS12-0-46	20127
Sensenich	K6967	72CKS6-0-54	20500
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Sensenich	K8523	72CKS6-0-54	20352
Sensenich	K902	M69CK	20073
Sensenich	K9863	M74DM-0-5B	20381